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\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	AUG 15	CAOLD to be discontinued on December 31, 2008
NEWS	3	OCT 07	EPFULL enhanced with full implementation of EPC2000
NEWS	4	OCT 07	Multiple databases enhanced for more flexible patent number searching
NEWS	5	OCT 22	Current-awareness alert (SDI) setup and editing enhanced
NEWS	6	OCT 22	WPIDS, WPINDEX, and WPIX enhanced with Canadian PCT Applications
NEWS	7	OCT 24	CHEMLIST enhanced with intermediate list of pre-registered REACH substances
NEWS	8	NOV 21	CAS patent coverage to include exemplified prophetic substances identified in English-, French-, German-, and Japanese-language basic patents from 2004-present
NEWS	9	NOV 26	MARPAT enhanced with FSORT command
NEWS	10	NOV 26	MEDLINE year-end processing temporarily halts availability of new fully-indexed citations
NEWS	11	NOV 26	CHEMSAFE now available on STN Easy
NEWS	12	NOV 26	Two new SET commands increase convenience of STN searching
NEWS	13	DEC 01	ChemPort single article sales feature unavailable
NEWS	14	DEC 12	GBFULL now offers single source for full-text coverage of complete UK patent families
NEWS	15	DEC 17	Fifty-one pharmaceutical ingredients added to PS
NEWS	16	JAN 06	The retention policy for unread STNmail messages will change in 2009 for STN-Columbus and STN-Tokyo
NEWS EXPRESS	JUNE 27 08	CURRENT WINDOWS VERSION IS V8.3, AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.	
NEWS HOURS	STN Operating Hours Plus Help Desk Availability		
NEWS LOGIN	Welcome Banner and News Items		
NEWS IPC8	For general information regarding STN implementation of IPC 8		

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 14:08:06 ON 06 JAN 2009

=> file reg  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.22	0.22

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 14:08:20 ON 06 JAN 2009  
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STRUCTURE FILE UPDATES: 5 JAN 2009 HIGHEST RN 1092651-12-1  
DICTIONARY FILE UPDATES: 5 JAN 2009 HIGHEST RN 1092651-12-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

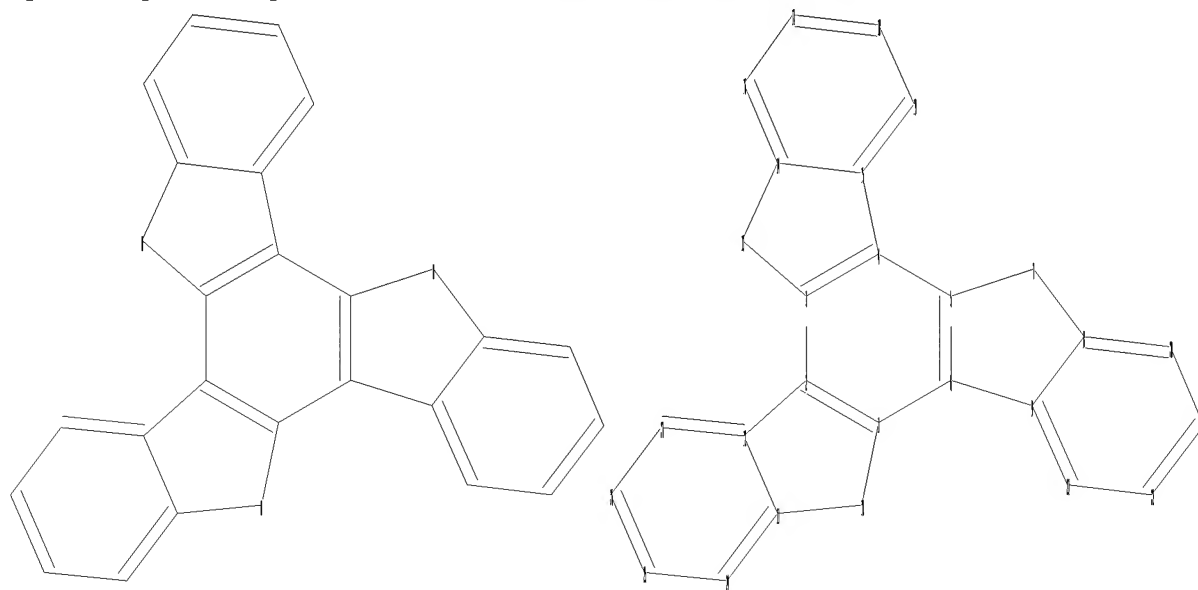
Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\STNEXP\Queries\10589534.str



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24 25 26 27

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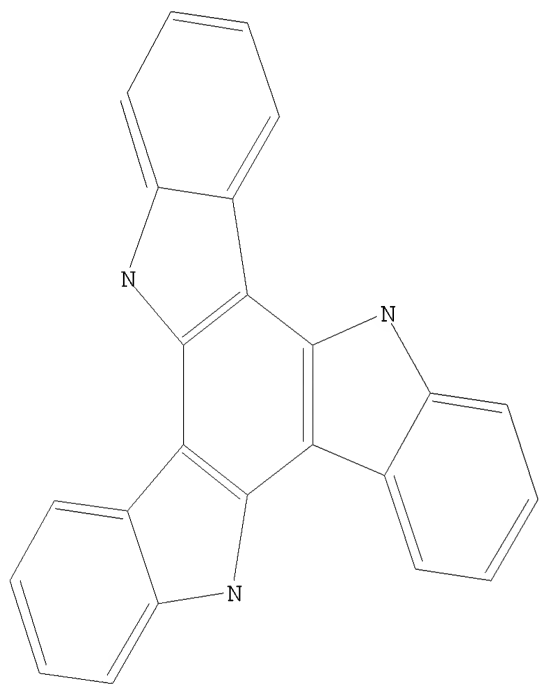
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9-23 10-11 11-12 11-24 12-27 13-14 14-15 14-16 15-19 16-17 17-18 18-19  
20-21 21-22 22-23 24-25 25-26 26-27

exact/norm bonds :  
 1-10 2-12 3-13 4-15 5-7 6-9 7-8 10-11 13-14  
 normalized bonds :  
 1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-20 9-23 11-12 11-24 12-27 14-15 14-16  
 15-19 16-17 17-18 18-19 20-21 21-22 22-23 24-25 25-26 26-27

Match level :  
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom  
 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom

L1 STRUCTURE UPLOADED

=> d l1  
 L1 HAS NO ANSWERS  
 L1 STR



Structure attributes must be viewed using STN Express query preparation.

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 FULL SEARCH INITIATED 14:08:37 FILE 'REGISTRY'  
 FULL SCREEN SEARCH COMPLETED - 13239 TO ITERATE

100.0% PROCESSED 13239 ITERATIONS 149 ANSWERS  
 SEARCH TIME: 00.00.01

L2 149 SEA SSS FUL L1

=> file capl  
 COST IN U.S. DOLLARS  
 SINCE FILE ENTRY TOTAL SESSION

FULL ESTIMATED COST

185.88

186.10

FILE 'CAPLUS' ENTERED AT 14:08:42 ON 06 JAN 2009  
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FILE COVERS 1907 - 6 Jan 2009 VOL 150 ISS 2  
FILE LAST UPDATED: 5 Jan 2009 (20090105/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

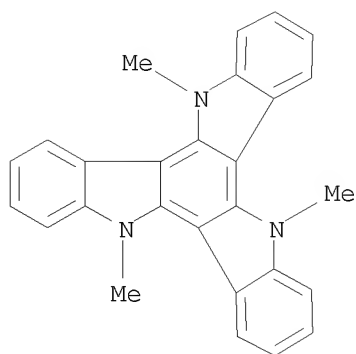
<http://www.cas.org/legal/infopolicy.html>

=> s 12

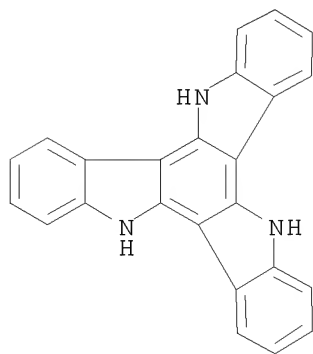
L3 62 L2

=> d 13 1-62 ibib hitstr

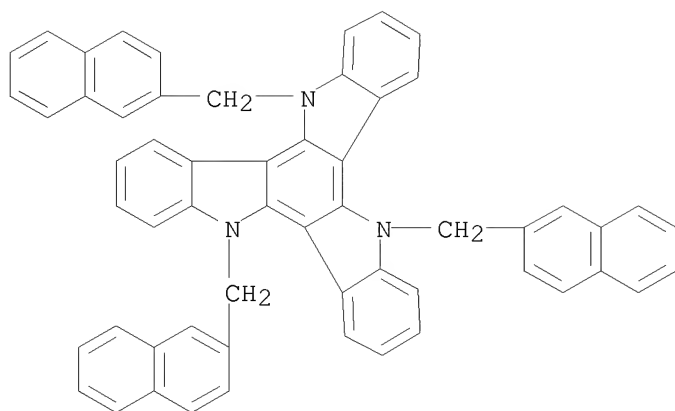
L3 ANSWER 1 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN  
ACCESSION NUMBER: 2008:1383599 CAPLUS  
DOCUMENT NUMBER: 149:555103  
TITLE: Cu, Ni, and Pd mediated homocoupling reactions in biaryl syntheses: The Ullmann reaction  
AUTHOR(S): Nelson, Todd D.; Crouch, R. David  
CORPORATE SOURCE: Merck and Co., Wayne, PA, USA  
SOURCE: Organic Reactions (Hoboken, NJ, United States) (2004), 63, No pp. given  
CODEN: ORHNBA  
URL: <http://www3.interscience.wiley.com/cgi-bin/mrwhome/107610747/HOME>  
PUBLISHER: John Wiley & Sons, Inc.  
DOCUMENT TYPE: Journal; General Review; (online computer file)  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 149:555103  
IT 75833-66-8P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(Cu, Ni, and Pd Mediated Homocoupling Reactions in Biaryl Syntheses: The Ullmann Reaction)  
RN 75833-66-8 CAPLUS  
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro-5,10,15-trimethyl- (CA INDEX NAME)



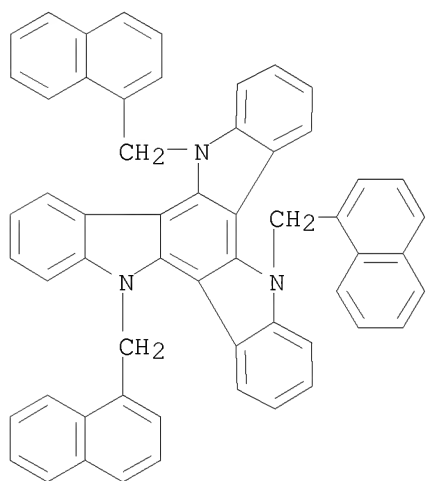
L3 ANSWER 2 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2008:1273452 CAPLUS  
 TITLE: Synthesis and preferred all-syn conformation of  
 C3-symmetrical N-(hetero)arylmethyl triindoles  
 AUTHOR(S): Garcia-Frutos, Eva M.; Gomez-Lor, Berta; Monge,  
 Angeles; Gutierrez-Puebla, Enrique; Alkorta, Ibon;  
 Elguero, Jose  
 CORPORATE SOURCE: Instituto de Ciencia de Materiales de Madrid, CSIC,  
 Madrid, 28049, Spain  
 SOURCE: Chemistry--A European Journal (2008), 14(28),  
 8555-8561  
 CODEN: CEUJED; ISSN: 0947-6539  
 PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 IT 109005-10-9  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (N-aralkylation; synthesis and preferred all-syn conformation of  
 C3-sym. N-(hetero)arylmethyl triindoles)  
 RN 109005-10-9 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro- (CA INDEX NAME)



IT 1092536-45-2P 1092536-46-3P  
 RL: PEP (Physical, engineering or chemical process); PRP (Properties); SPN  
 (Synthetic preparation); PREP (Preparation); PROC (Process)  
 (crystallog.; synthesis and preferred all-syn conformation of C3-sym.  
 N-(hetero)arylmethyl triindoles)  
 RN 1092536-45-2 CAPLUS  
 CN INDEX NAME NOT YET ASSIGNED



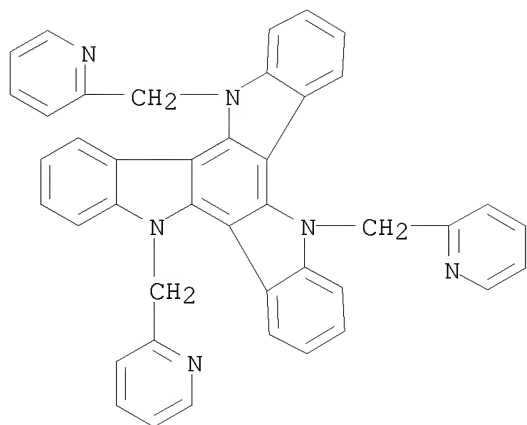
RN 1092536-46-3 CAPLUS  
 CN INDEX NAME NOT YET ASSIGNED



IT 1092536-52-1P  
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
 (crystallog.; synthesis and preferred all-syn conformation of C3-sym.  
 N-(hetero)arylmethyl triindoles)  
 RN 1092536-52-1 CAPLUS  
 CN INDEX NAME NOT YET ASSIGNED

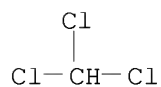
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CRN 1092536-48-5  
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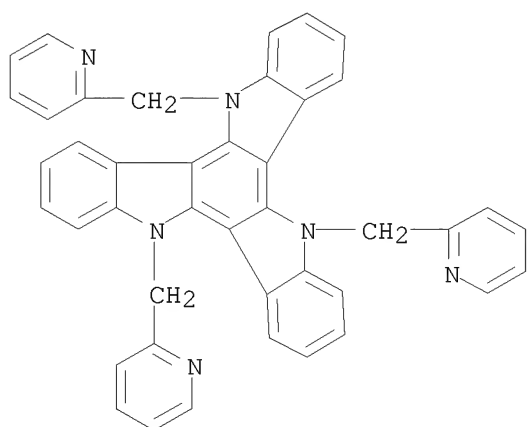


CM 2

CRN 67-66-3  
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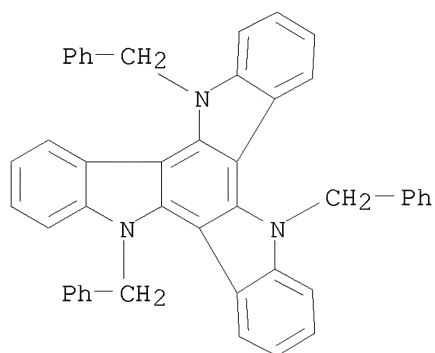


IT 1092536-48-5P  
RL: PEP (Physical, engineering or chemical process); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); PROC (Process) (crystallization; synthesis and preferred all-syn conformation of C3-sym. N-(hetero)arylmethyl triindoles)  
RN 1092536-48-5 CAPLUS  
CN INDEX NAME NOT YET ASSIGNED



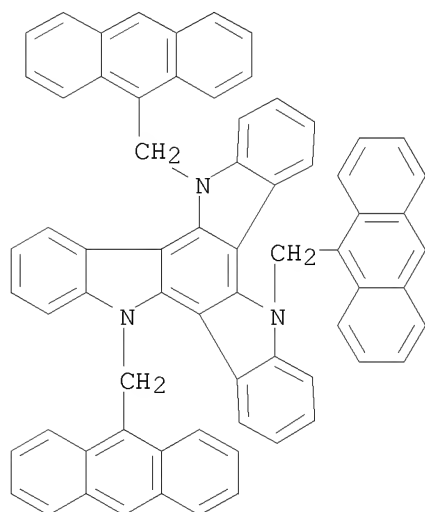
IT 1092536-44-1P 1092536-47-4P 1092536-49-6P  
1092536-50-9P 1092536-51-0P  
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (synthesis and preferred all-syn conformation of C3-sym. N-(hetero)arylmethyl triindoles)  
RN 1092536-44-1 CAPLUS

CN INDEX NAME NOT YET ASSIGNED



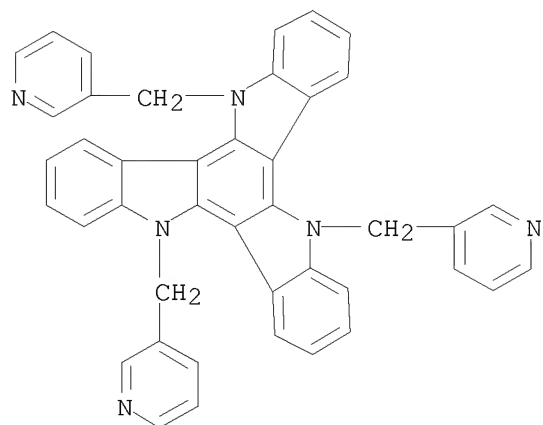
RN 1092536-47-4 CAPLUS

CN INDEX NAME NOT YET ASSIGNED



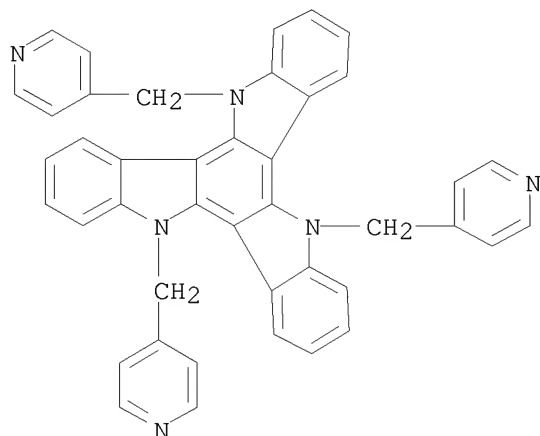
RN 1092536-49-6 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

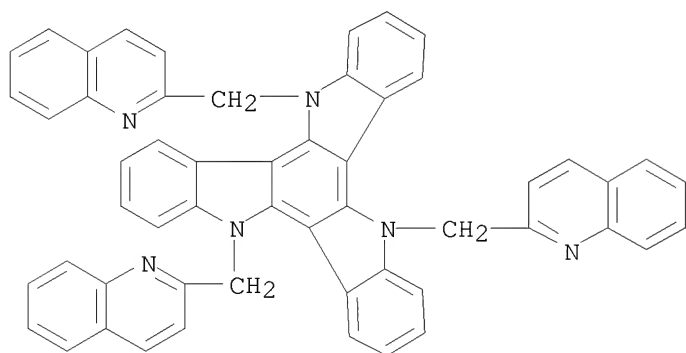




RN 1092536-50-9 CAPLUS  
CN INDEX NAME NOT YET ASSIGNED



RN 1092536-51-0 CAPLUS  
CN INDEX NAME NOT YET ASSIGNED



REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:1238729 CAPLUS

DOCUMENT NUMBER: 149:545565

TITLE: New Electrode-Friendly Triindole Columnar phases with High Hole Mobility

AUTHOR(S): Talarico, Mara; Termine, Roberto; Garcia-Frutos, Eva M.; Omenat, Ana; Serrano, Jose L.; Gomez-Lor, Berta; Golemme, Attilio

CORPORATE SOURCE: Centro di Eccellenza CEMIF, CAL LASCAMM CR-INSTM, Licryl CNR-INFM, Dipartimento di Chimica, Universita della Calabria, Rende, 87036, Italy

SOURCE: Chemistry of Materials (2008), 20(21), 6589-6591  
CODEN: CMATEX; ISSN: 0897-4756

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

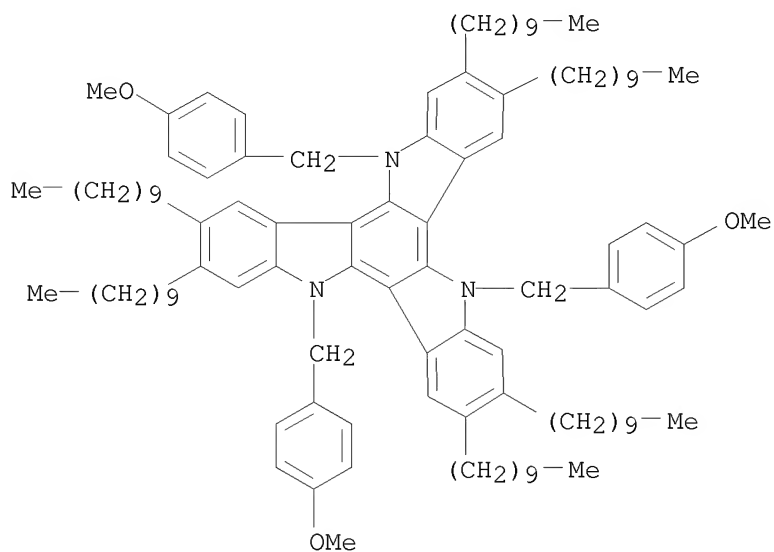
IT 922719-60-6 922719-61-7 1075750-00-3

RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM

(Technical or engineered material use); PROC (Process); USES (Uses)  
(hole transport in triindole columnar discotic liquid crystals)

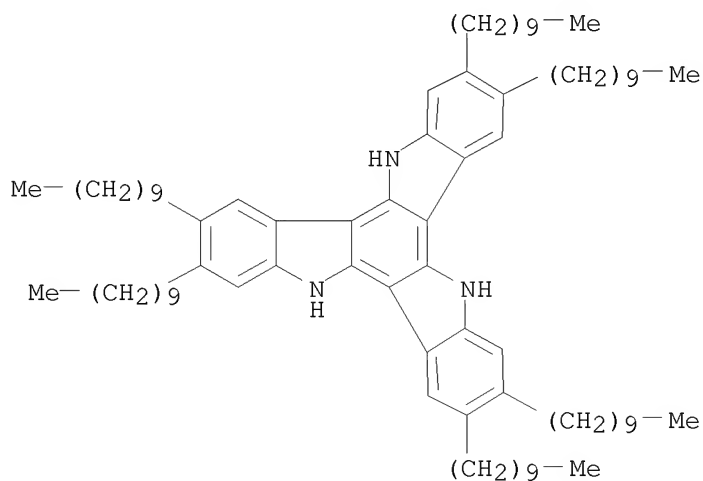
RN 922719-60-6 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
2,3,7,8,12,13-hexakis(decyl)-10,15-dihydro-5,10,15-tris[(4-methoxyphenyl)methyl]- (CA INDEX NAME)



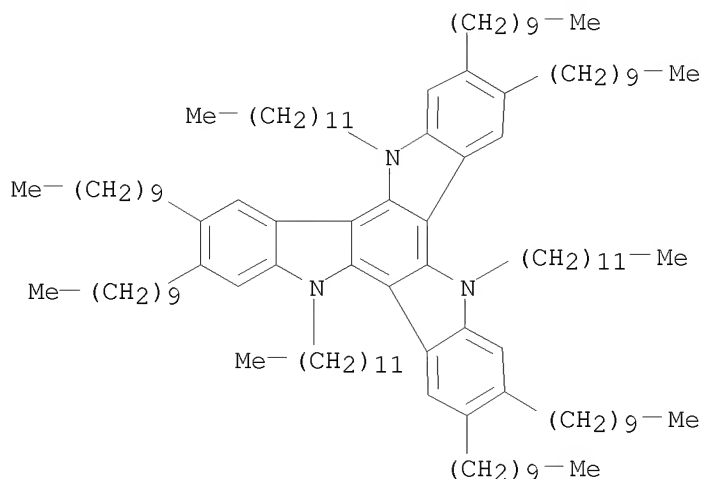
RN 922719-61-7 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
2,3,7,8,12,13-hexakis(decyl)-10,15-dihydro- (CA INDEX NAME)



RN 1075750-00-3 CAPLUS

CN INDEX NAME NOT YET ASSIGNED



REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:1143433 CAPLUS

DOCUMENT NUMBER: 149:534017

TITLE: Synthesis and characterization of starburst 9-phenylcarbazole/triazatruxene hybrids

AUTHOR(S): Lai, Wen-Yong; He, Qi-Yuan; Chen, Dao-Yong; Huang, Wei

CORPORATE SOURCE: Institute of Advanced Materials, Fudan University, Shanghai, 200433, Peop. Rep. China

SOURCE: Chemistry Letters (2008), 37(9), 986-987

CODEN: CMLTAG; ISSN: 0366-7022

PUBLISHER: Chemical Society of Japan

DOCUMENT TYPE: Journal

LANGUAGE: English

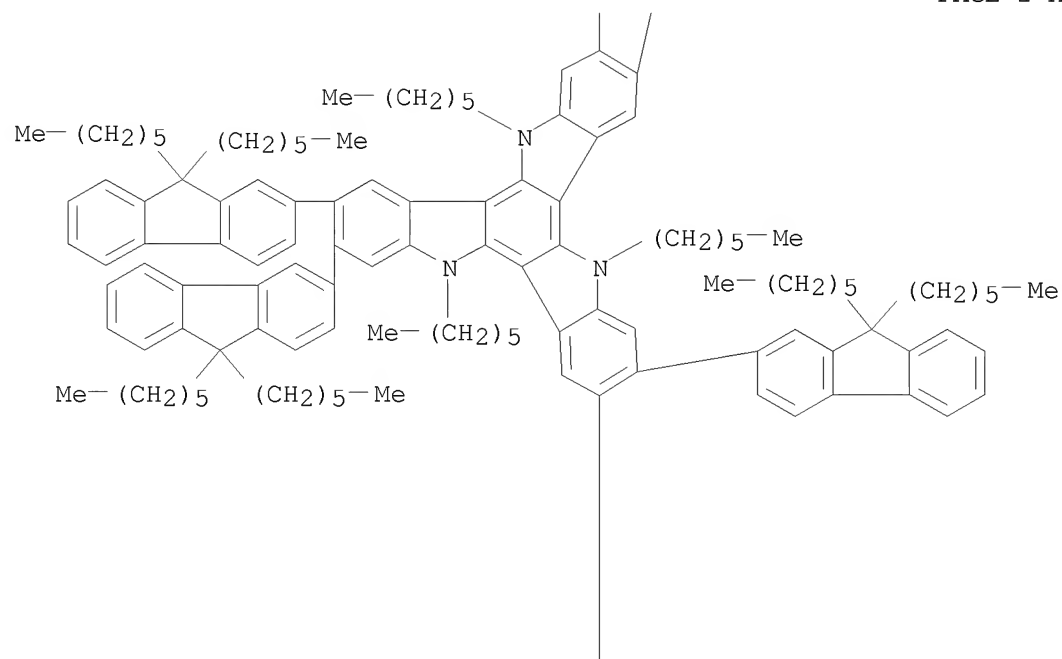
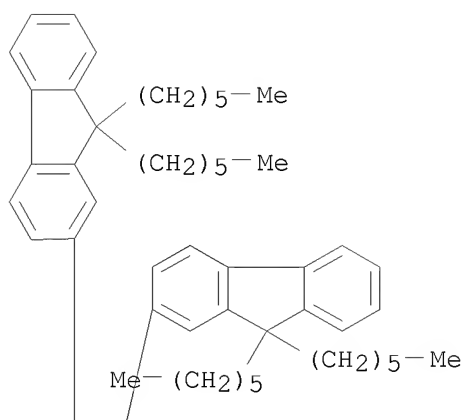
IT 1078162-85-2

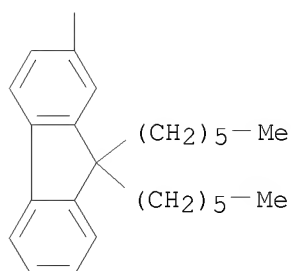
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)

(preparation of phenylcarbazole-triazatruxene hybrids via cross-coupling of hexabromotriazatruxene with phenylcarbazole boron esters as key step, and their UV-vis spectra and cyclic voltammetry property)

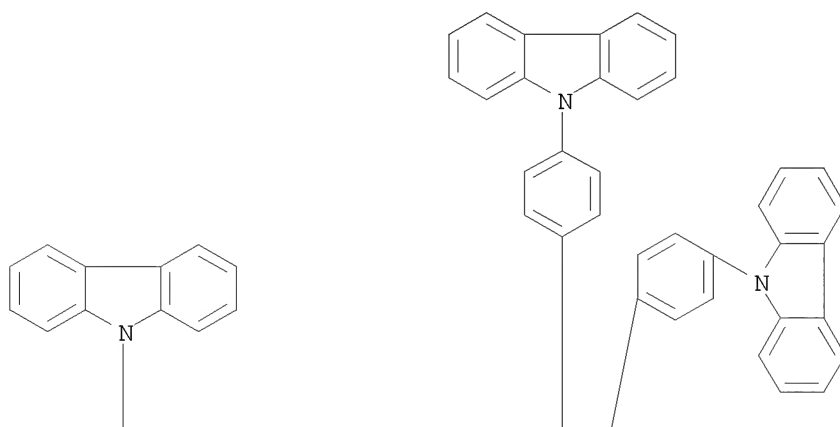
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CN INDEX NAME NOT YET ASSIGNED

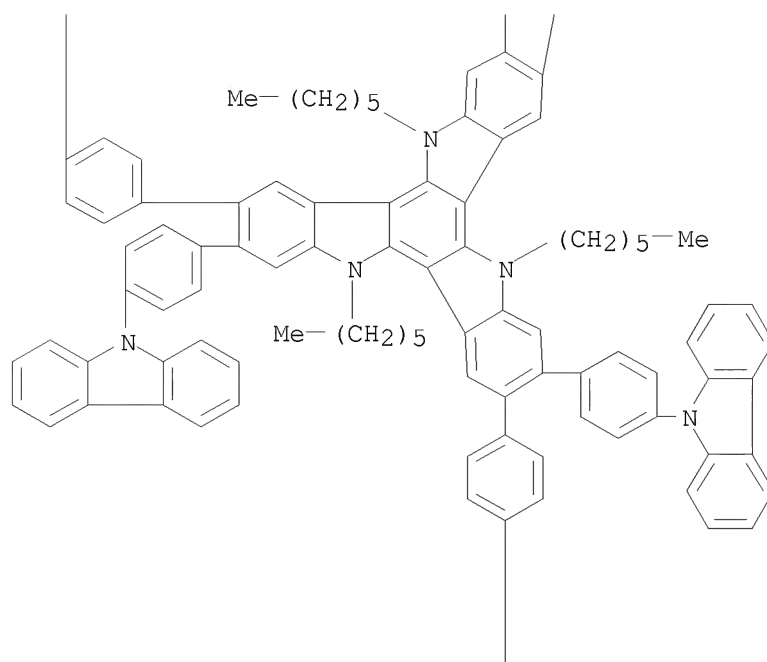




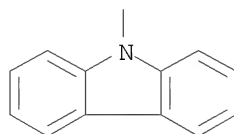
IT 1078162-83-0P 1078162-84-1P  
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of phenylcarbazole-triazatruxene hybrids via cross-coupling of  
 hexabromotriazatruxene with phenylcarbazole boron esters as key step,  
 and their UV-vis spectra and cyclic voltammetry property)  
 RN 1078162-83-0 CAPLUS  
 CN INDEX NAME NOT YET ASSIGNED



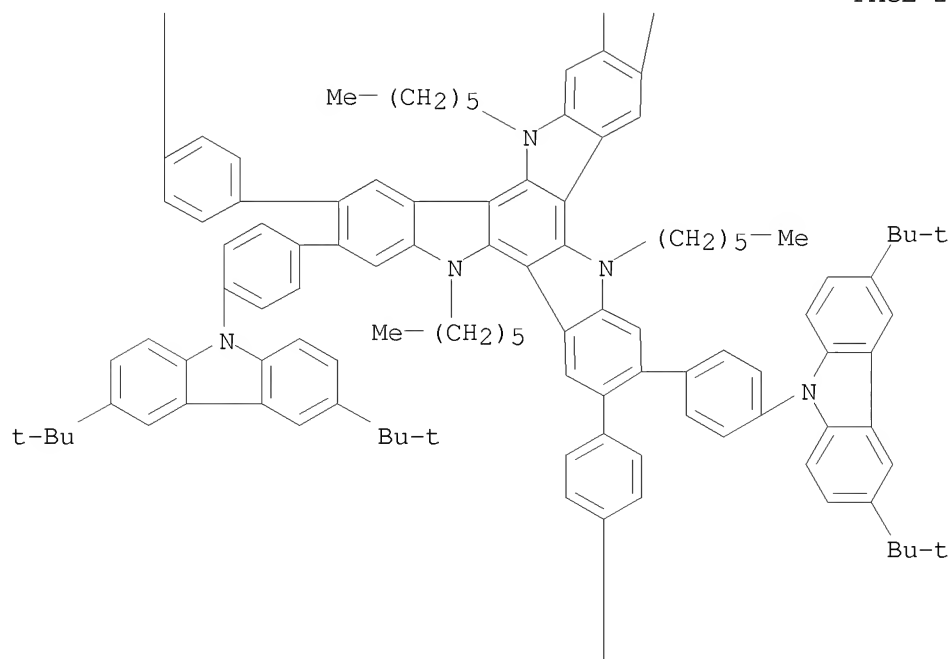
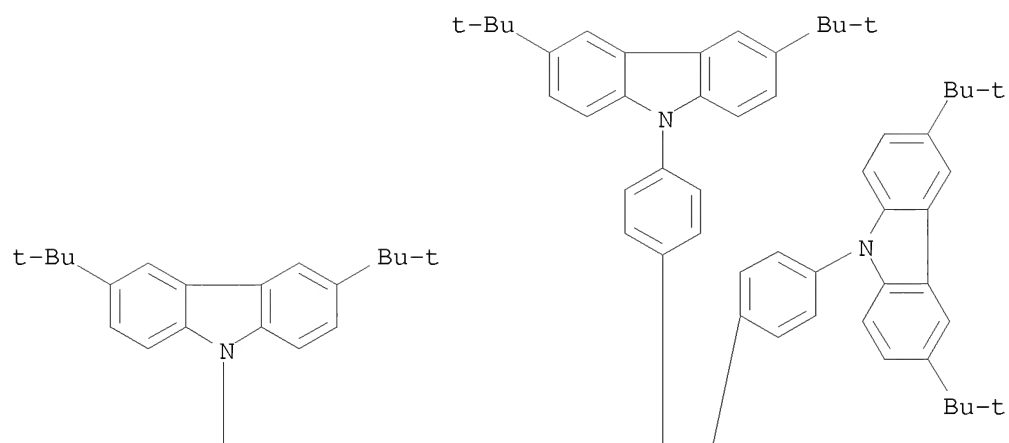
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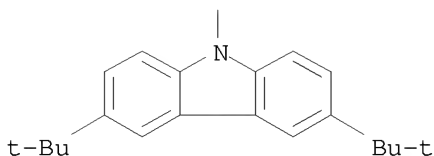


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RN 1078162-84-1 CAPLUS  
CN INDEX NAME NOT YET ASSIGNED





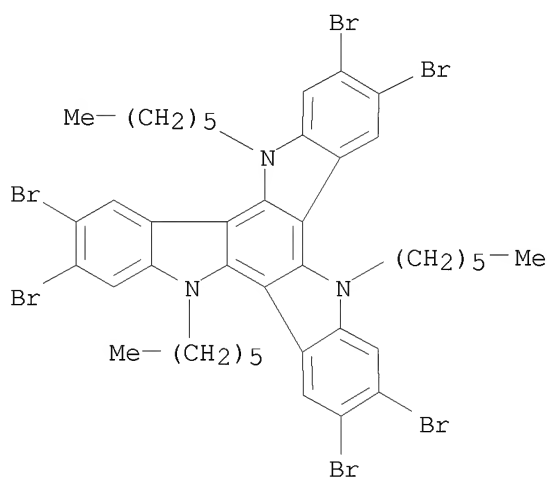
IT 894357-86-9

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of phenylcarbazole-triazatruxene hybrids via cross-coupling of hexabromotriazatruxene with phenylcarbazole boron esters as key step, and their UV-vis spectra and cyclic voltammetry property)

RN 894357-86-9 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
2,3,7,8,12,13-hexabromo-5,10,15-trihexyl-10,15-dihydro- (CA INDEX NAME)



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 5 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:1061959 CAPLUS

DOCUMENT NUMBER: 149:389587

TITLE: Blue light emitting functional material and its application

INVENTOR(S): Huang, Wei; Lai, Wenyong; He, Qiyuan

PATENT ASSIGNEE(S): Nanjing University of Posts and Telecommunications,  
Peop. Rep. China

SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 21pp.  
CODEN: CNXXEV

DOCUMENT TYPE: Patent

LANGUAGE: Chinese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 101250404	A	20080827	CN 2007-10192017	20071228
PRIORITY APPLN. INFO.:			CN 2007-10192017	20071228

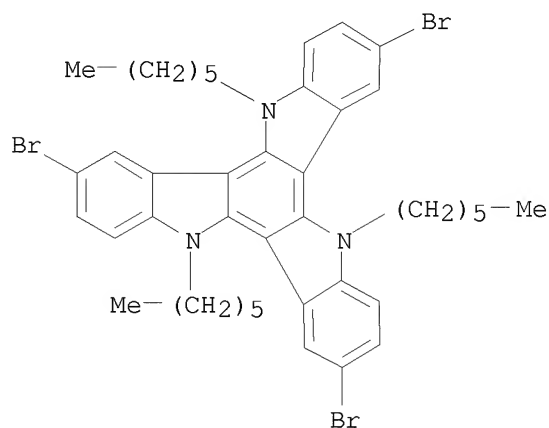
IT 862856-06-2P 894357-86-9P 1020085-72-6P



RL: PEP (Physical, engineering or chemical process); RCT (Reactant); SPN  
(Synthetic preparation); PREP (Preparation); PROC (Process); RACT  
(Reactant or reagent)  
(blue light emitting functional material and its application)

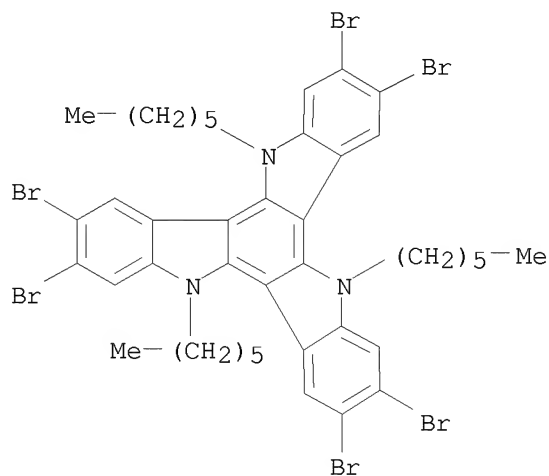
RN 862856-06-2 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
3,8,13-tribromo-5,10,15-trihexyl-10,15-dihydro- (CA INDEX NAME)



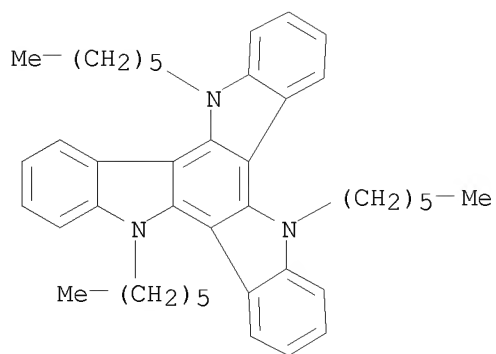
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CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
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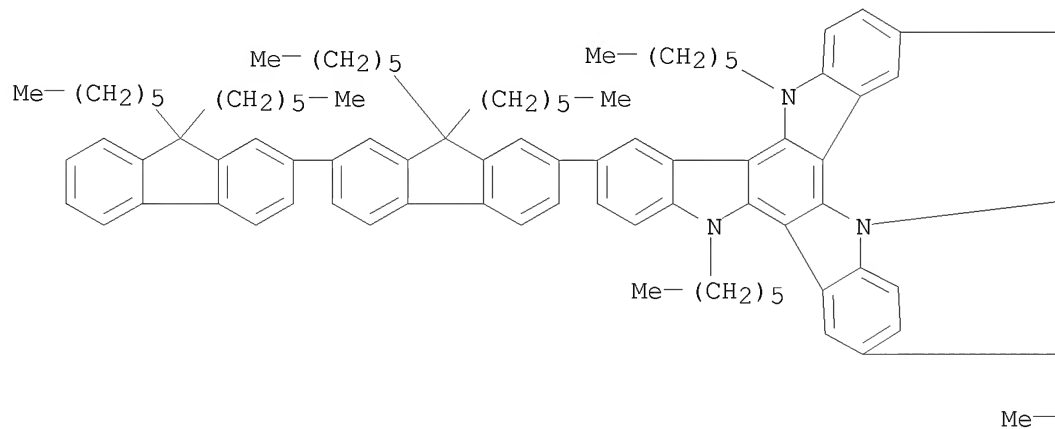
RN 1020085-72-6 CAPLUS

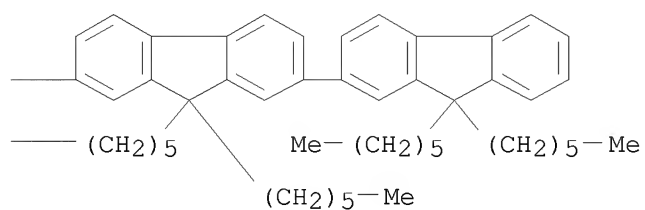
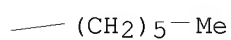
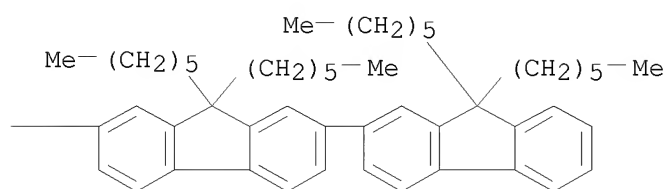
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 5,10,15-trihexyl-10,15-dihydro- (CA INDEX NAME)



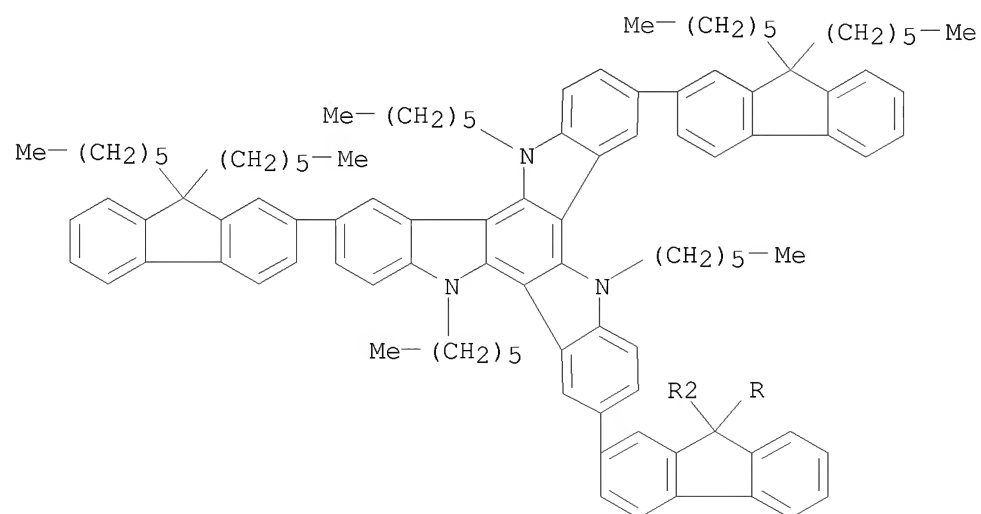
IT 943967-38-2P 1059701-75-5P  
 RL: PEP (Physical, engineering or chemical process); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)  
 (blue light emitting functional material and its application)  
 RN 943967-38-2 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 5,10,15-trihexyl-10,15-dihydro-3,8,13-tris(9,9,9',9'-tetrahexyl[2,2'-bi-9H-fluoren]-7-yl)- (CA INDEX NAME)

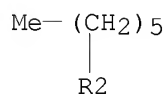
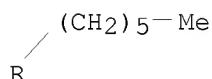
PAGE 1-A



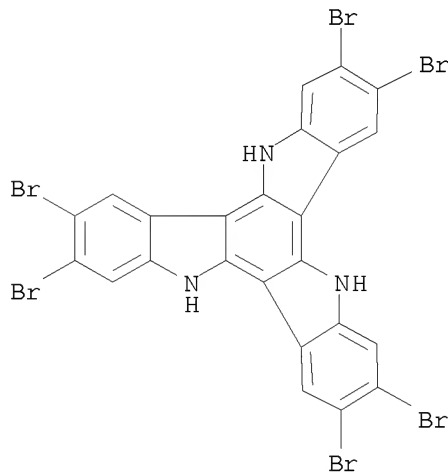


RN	1059701-75-5	CAPLUS	
CN	5H-Diindolo[3,2-a:3',2'-c]carbazole, 2,7,12-tris(9,9-dihexyl-9H-fluoren-2-yl)-5,10,15-trihexyl- (CA INDEX NAME)		





IT 307519-55-7  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (blue light emitting functional material and its application)  
 RN 307519-55-7 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 2,3,7,8,12,13-hexabromo-10,15-dihydro- (CA INDEX NAME)



L3 ANSWER 6 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2008:982143 CAPLUS  
 DOCUMENT NUMBER: 149:425908  
 TITLE: Fullerenes from aromatic precursors by  
 surface-catalysed cyclodehydrogenation  
 AUTHOR(S): Otero, Gonzalo; Biddau, Giulio; Sanchez-Sanchez,  
 Carlos; Caillard, Renaud; Lopez, Maria F.; Rogero,  
 Celia; Palomares, F. Javier; Cabello, Noemi; Basanta,  
 Miguel A.; Ortega, Jose; Mendez, Javier; Echavarren,  
 Antonio M.; Perez, Ruben; Gomez-Lor, Berta;  
 Martin-Gago, Jose A.  
 CORPORATE SOURCE: Instituto de Ciencia de Materiales de Madrid (CSIC),  
 Madrid, 28049, Spain  
 SOURCE: Nature (London, United Kingdom) (2008), 454(7206),  
 865-868  
 CODEN: NATUAS; ISSN: 0028-0836  
 PUBLISHER: Nature Publishing Group  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 IT 757233-19-5P  
 RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)

(ab initio calcns.; preparation of C60-fullerene and triazafullerene from aromatic precursors by surface-catalyzed cyclodehydrogenation)

RN 757233-19-5 CAPLUS

CN 9H,20H,31H-Tribenzo[k,k',k'']benzo[1''',2''':4,5;3''',4''':4',5';  
5''',6''':4'',5'']tripyrrolo[3,2,1-de:3',2',1'-d'e':3'',2'',1''-  
d''e'']triphenanthridine (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

IT 307519-55-7

RL: RCT (Reactant); RACT (Reactant or reagent)

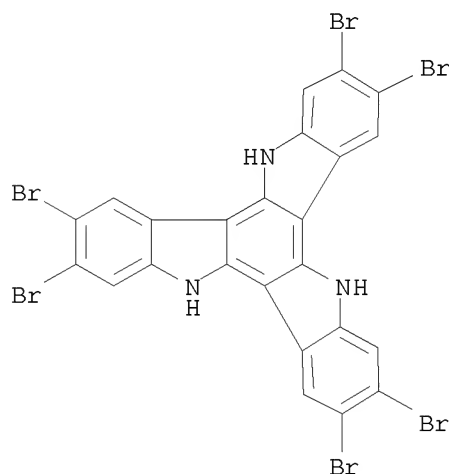
(preparation of C60-fullerene and triazafullerene from aromatic precursors

by

surface-catalyzed cyclodehydrogenation)

RN 307519-55-7 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
2,3,7,8,12,13-hexabromo-10,15-dihydro- (CA INDEX NAME)



IT 109005-10-9P 757233-25-3P 1066376-38-2P

1066376-39-3P 1066376-40-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)

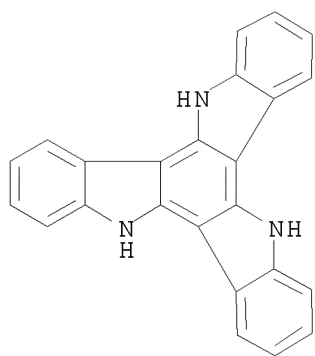
(preparation of C60-fullerene and triazafullerene from aromatic precursors

by

surface-catalyzed cyclodehydrogenation)

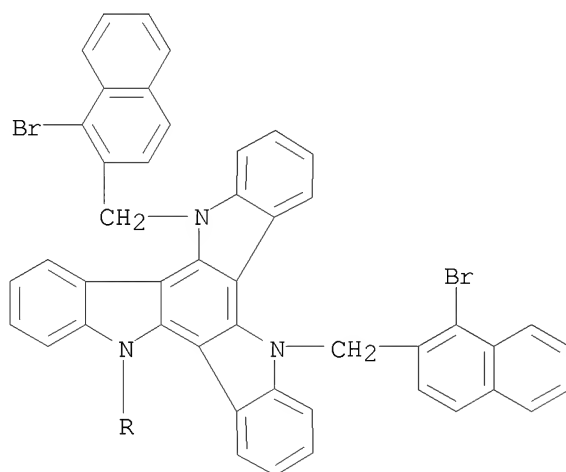
RN 109005-10-9 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro- (CA INDEX NAME)

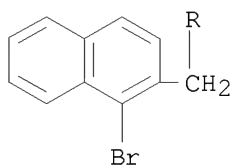


RN 757233-25-3 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 5,10,15-tris[(2-bromo-1-naphthalenyl)methyl]-10,15-dihydro- (9CI) (CA  
 INDEX NAME)

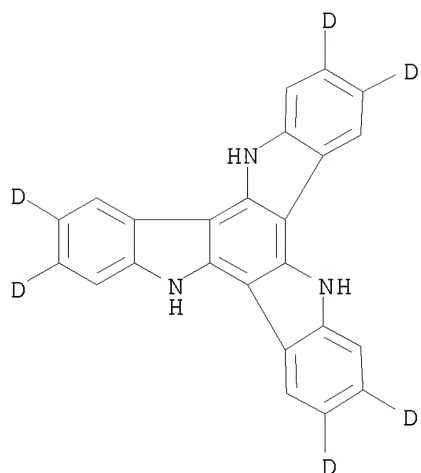
PAGE 1-A



PAGE 2-A

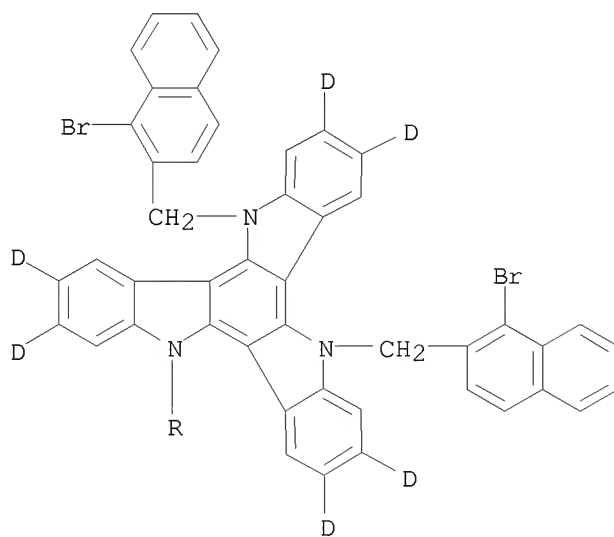


RN 1066376-38-2 CAPLUS  
 CN INDEX NAME NOT YET ASSIGNED

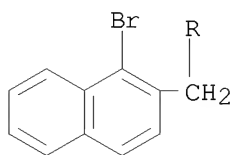


RN 1066376-39-3 CAPLUS  
CN INDEX NAME NOT YET ASSIGNED

PAGE 1-A



PAGE 2-A



RN 1066376-40-6 CAPLUS  
CN INDEX NAME NOT YET ASSIGNED

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 7 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:746167 CAPLUS

DOCUMENT NUMBER: 149:104371

TITLE: Synthesis and Self-Association Properties of Functionalized C3-Symmetric Hexakis(p-substituted-phenylethynyl)triindoles

AUTHOR(S): Garcia-Frutos, Eva M.; Gomez-Lor, Berta

CORPORATE SOURCE: Instituto de Ciencia de Materiales de Madrid, CSIC, Madrid, 28049, Spain

SOURCE: Journal of the American Chemical Society (2008), 130(28), 9173-9177

CODEN: JACSAT; ISSN: 0002-7863

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

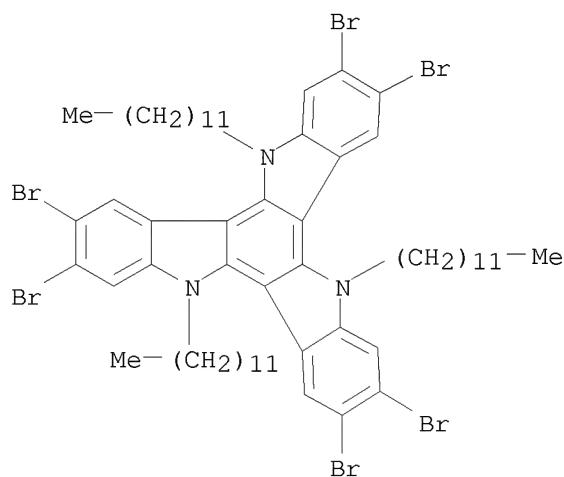
IT 1034498-01-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(6-fold Sonogashira coupling; synthesis and self-association properties of functionalized C3-sym. hexakis(p-substituted-phenylethynyl)triindoles)

RN 1034498-01-5 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 2,3,7,8,12,13-hexabromo-5,10,15-tridodecyl-10,15-dihydro- (CA INDEX NAME)



IT 1034498-07-1P

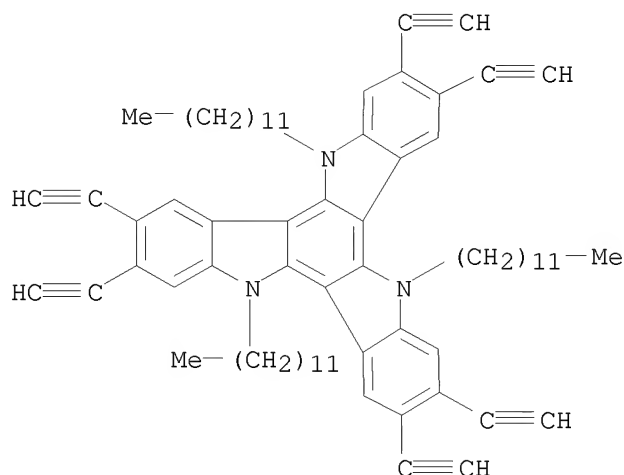
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(Sonogashira coupling; synthesis and self-association properties of functionalized C3-sym. hexakis(p-substituted-phenylethynyl)triindoles)

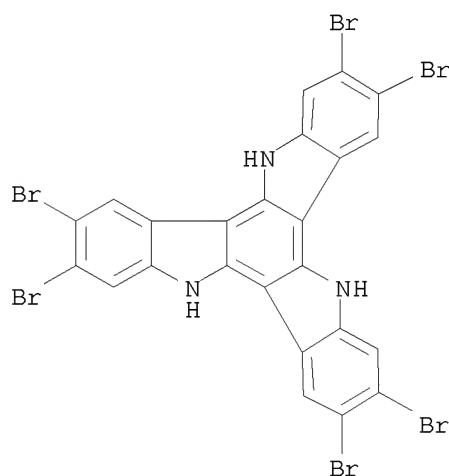
RN 1034498-07-1 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 5,10,15-tridodecyl-2,3,7,8,12,13-hexaethynyl-10,15-dihydro- (CA INDEX NAME)

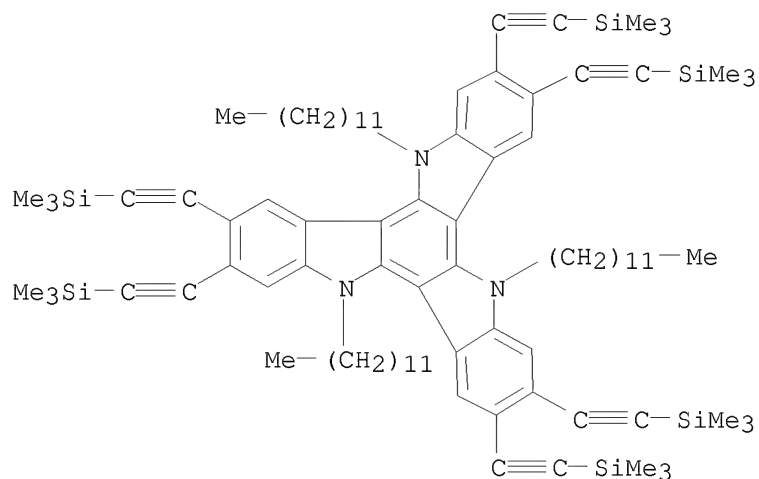




IT 307519-55-7  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (alkylation; synthesis and self-association properties of functionalized  
 C3-sym. hexakis(p-substituted-phenylethynyl)triindoles)  
 RN 307519-55-7 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 2,3,7,8,12,13-hexabromo-10,15-dihydro- (CA INDEX NAME)



IT 1034498-06-0P  
 RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP  
 (Preparation); RACT (Reactant or reagent)  
 (deprotection; synthesis and self-association properties of functionalized  
 C3-sym. hexakis(p-substituted-phenylethynyl)triindoles)  
 RN 1034498-06-0 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 5,10,15-tridodecyl-10,15-dihydro-2,3,7,8,12,13-hexakis[2-  
 (trimethylsilyl)ethynyl]- (CA INDEX NAME)



IT 1034498-08-2P 1034498-09-3P

RL: PEP (Physical, engineering or chemical process); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)

(target, no concentration-dependent chemical shifting; synthesis and self-association

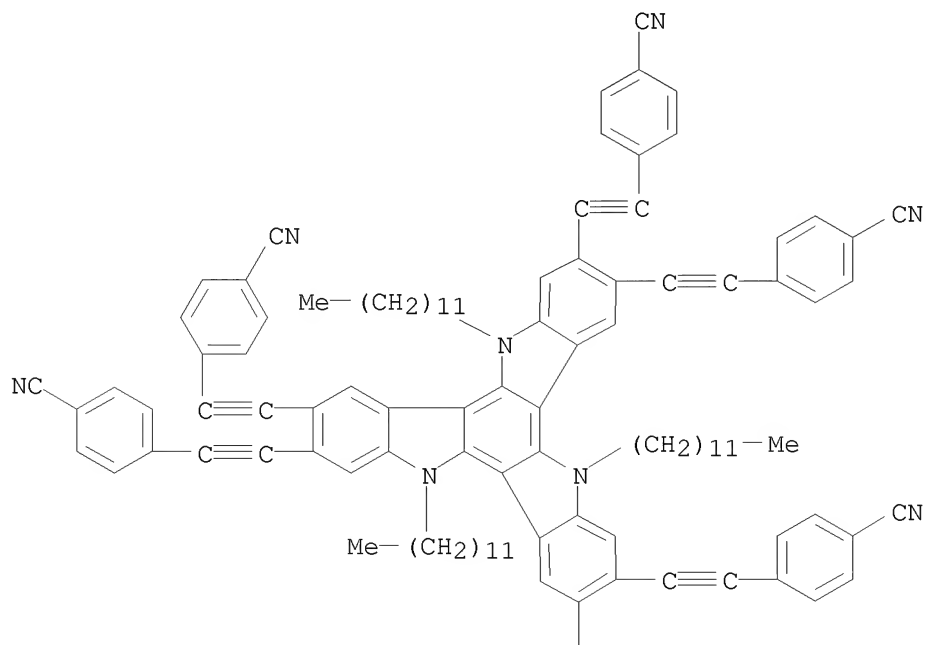
properties of functionalized C3-sym.

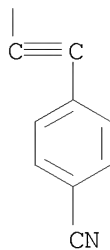
hexakis(p-substituted-phenylethynyl)triindoles)

RN 1034498-08-2 CAPLUS

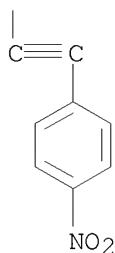
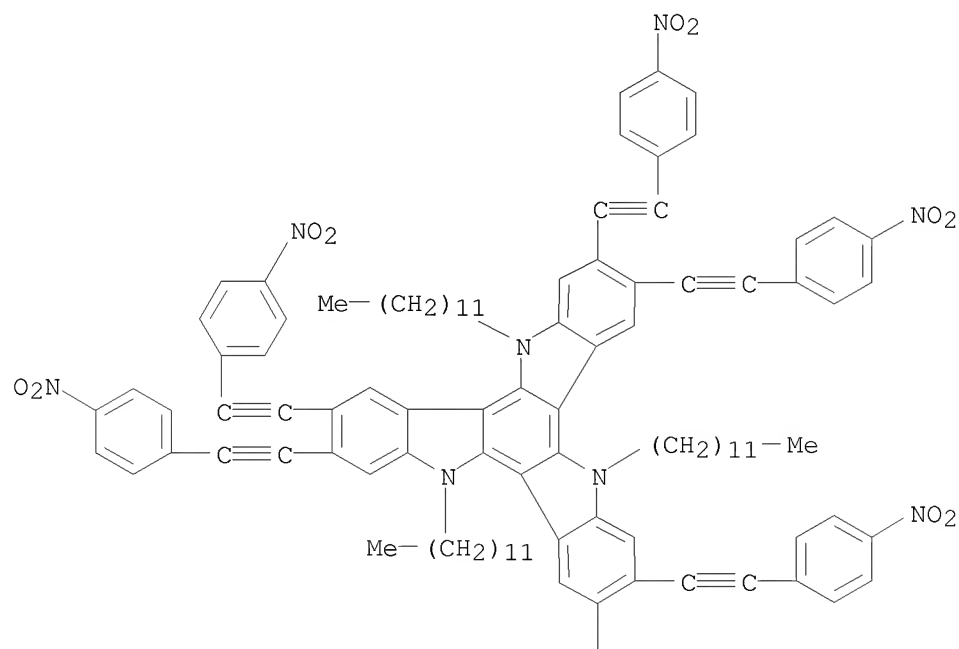
CN Benzonitrile, 4,4',4'',4''',4''''-[ (5,10,15-tridodecyl-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole-2,3,7,8,12,13-hexayl)hexa-2,1-ethynediyl]hexakis- (CA INDEX NAME)

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RN 1034498-09-3 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 5,10,15-tridodecyl-10,15-dihydro-2,3,7,8,12,13-hexakis[2-(4-  
 nitrophenyl)ethynyl]- (CA INDEX NAME)



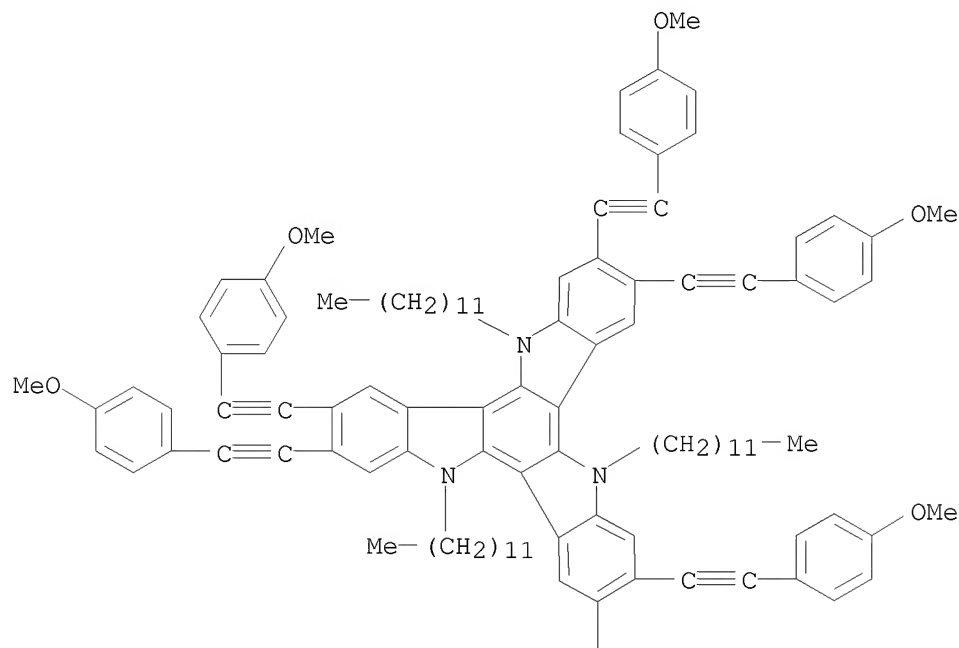
IT 1034498-02-6P 1034498-03-7P 1034498-04-8P  
 1034498-05-9P  
 RL: PEP (Physical, engineering or chemical process); PRP (Properties); SPN

(Synthetic preparation); PREP (Preparation); PROC (Process)  
 (target; synthesis and self-association properties of functionalized  
 C3-sym. hexakis(p-substituted-phenylethynyl)triindoles)

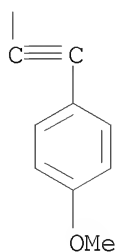
RN 1034498-02-6 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 5,10,15-tridodecyl-10,15-dihydro-2,3,7,8,12,13-hexakis[2-(4-  
 methoxyphenyl)ethynyl]- (CA INDEX NAME)

PAGE 1-A

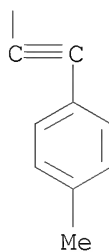
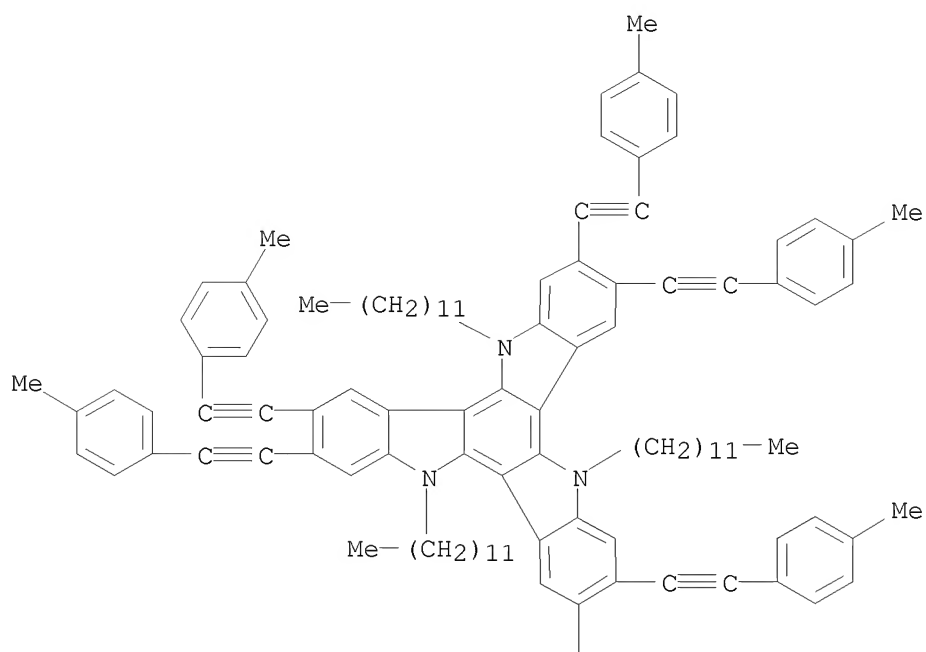


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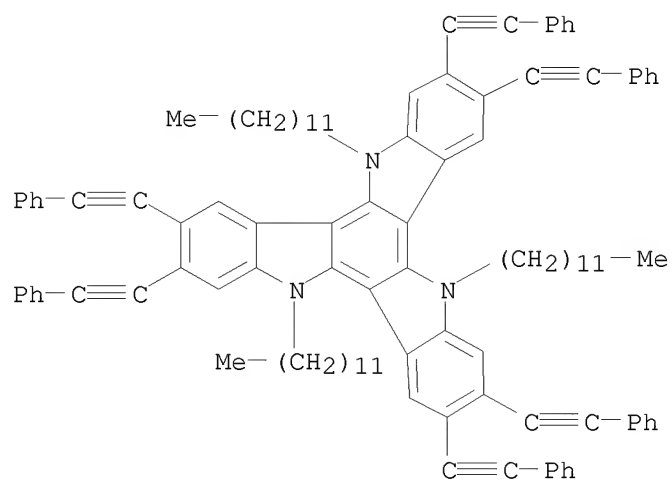


RN 1034498-03-7 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 5,10,15-tridodecyl-10,15-dihydro-2,3,7,8,12,13-hexakis[2-(4-  
 methylphenyl)ethynyl]- (CA INDEX NAME)

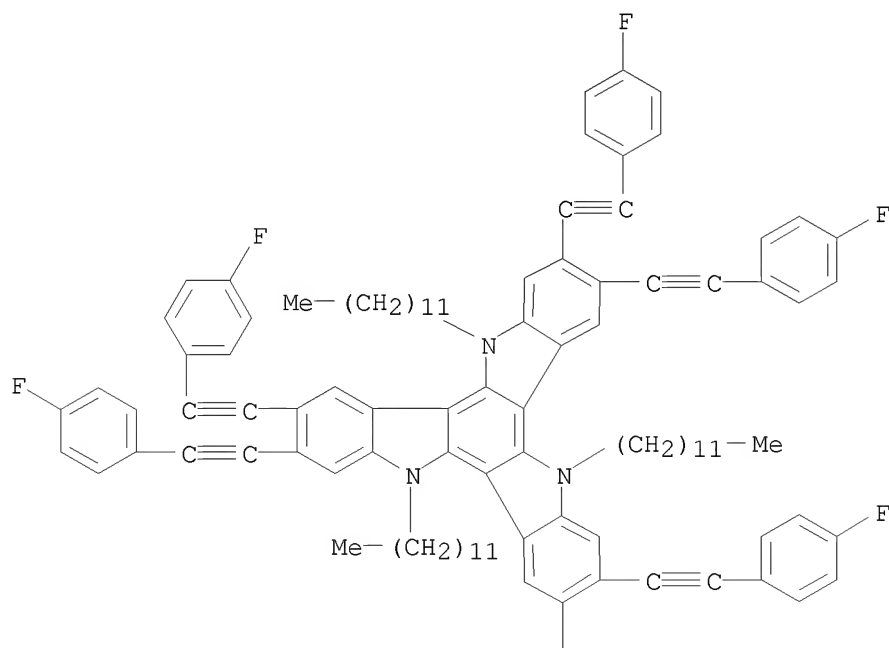


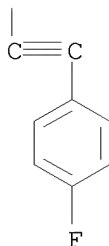
RN 1034498-04-8 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 5,10,15-tridodecyl-10,15-dihydro-2,3,7,8,12,13-hexakis(2-phenylethynyl)-  
 (CA INDEX NAME)



RN 1034498-05-9 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 5,10,15-tridodecyl-2,3,7,8,12,13-hexakis[2-(4-fluorophenyl)ethynyl]-10,15-  
 dihydro- (CA INDEX NAME)

PAGE 1-A





REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 8 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:697472 CAPLUS

DOCUMENT NUMBER: 149:210454

TITLE: Precise determination of the first hyperpolarizability of a fluorescent triindole derivative with dicyanovinyl groups by the deconvolution method

AUTHOR(S): Ikeda, Shigeru; Kumagai, Hironobu; Ooi, Hideo; Konishi, Koji; Hiyoshi, Hidetaka; Wada, Tatsuo

CORPORATE SOURCE: Supramolecular Science Laboratory, RIKEN (The Institute of Physical and Chemical Research), Wako, Saitama, 351-0198, Japan

SOURCE: Chemical Physics Letters (2008), 458(4-6), 337-340  
CODEN: CHPLBC; ISSN: 0009-2614

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

IT 862856-16-4

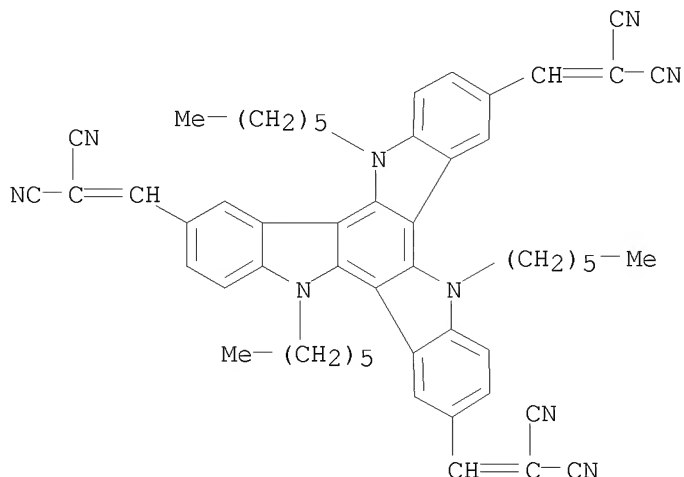
RL: PRP (Properties)

(precise determination of first hyperpolarizability of a fluorescent triindole

derivative with dicyanovinyl groups by the deconvolution method)

RN 862856-16-4 CAPLUS

CN Propanedinitrile, 2,2',2''-[(5,10,15-trihexyl-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole-3,8,13-triyl)trimethylidyne]tris- (CA INDEX NAME)



REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 9 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:380498 CAPLUS

DOCUMENT NUMBER: 148:472561

TITLE: Tricarbazole hyperbranched polymer

INVENTOR(S): Huang, Wei; Lai, Wenyong

PATENT ASSIGNEE(S): Nanjing University of Posts & Telecommunications,  
Peop. Rep. China

SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 18pp.  
CODEN: CNXXEV

DOCUMENT TYPE: Patent

LANGUAGE: Chinese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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CN 101148508	A	20080326	CN 2007-10131444	20070829

PRIORITY APPLN. INFO.: CN 2007-10131444 20070829

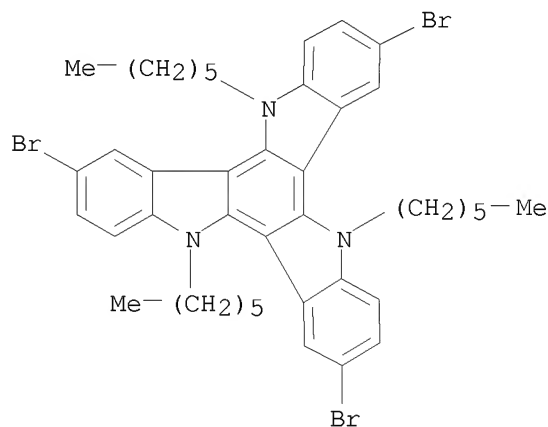
IT 862856-06-2P 894357-86-9P 1020085-72-6P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(preparation of blue light emitting tricarbazole-containing hyperbranched polymer)

RN 862856-06-2 CAPLUS

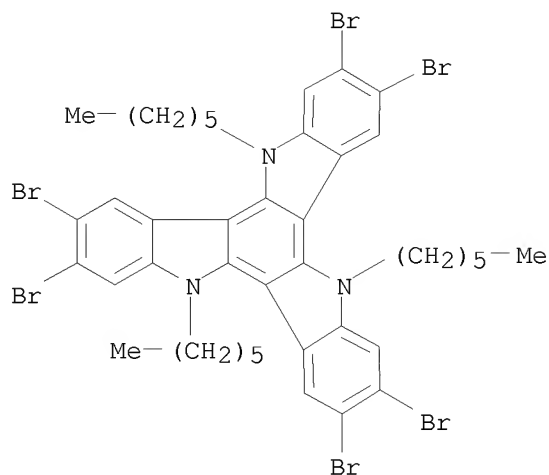
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
3,8,13-tribromo-5,10,15-trihexyl-10,15-dihydro- (CA INDEX NAME)



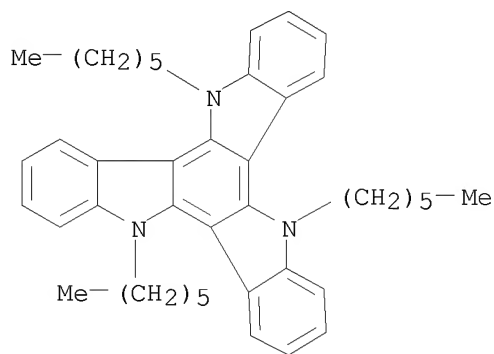
RN 894357-86-9 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
2,3,7,8,12,13-hexabromo-5,10,15-trihexyl-10,15-dihydro- (CA INDEX NAME)





RN 1020085-72-6 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 5,10,15-trihexyl-10,15-dihydro- (CA INDEX NAME)

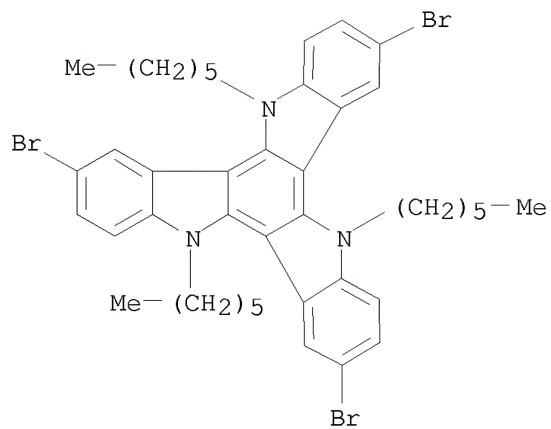


IT 1020085-73-7P 1020085-74-8P  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (preparation of blue light emitting tricarbazole-containing hyperbranched polymer)

RN 1020085-73-7 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 3,8,13-tribromo-5,10,15-trihexyl-10,15-dihydro-, polymer with 2,7-dibromo-9,9-dihexyl-9H-fluorene (CA INDEX NAME)

CM 1

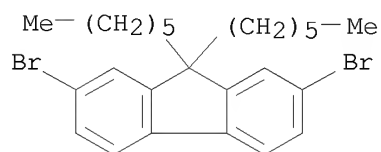
CRN 862856-06-2  
 CMF C42 H48 Br3 N3



CM 2

CRN 189367-54-2

CMF C25 H32 Br2



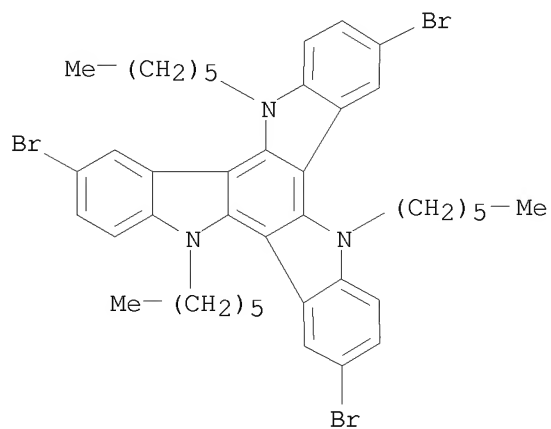
RN 1020085-74-8 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
3,8,13-tribromo-5,10,15-trihexyl-10,15-dihydro-, polymer with  
2,7-dibromo-9,9-bis[4-(hexyloxy)phenyl]-9H-fluorene and  
2,7-dibromo-9,9'-spirobi[9H-fluorene] (CA INDEX NAME)

CM 1

CRN 862856-06-2

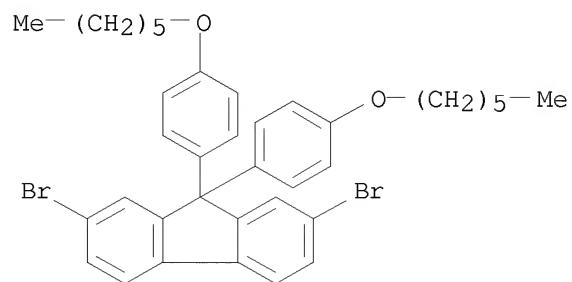
CMF C42 H48 Br3 N3



CM 2

CRN 690994-34-4

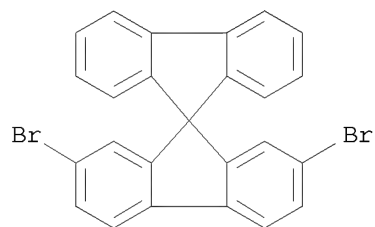
CMF C37 H40 Br2 O2



CM 3

CRN 171408-84-7

CMF C25 H14 Br2



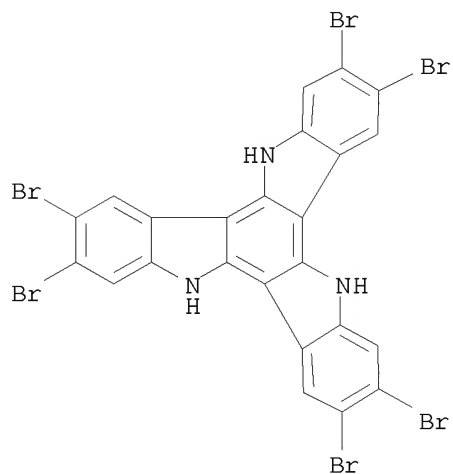
IT 307519-55-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of blue light emitting tricarbazole-containing hyperbranched polymer)

RN 307519-55-7 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
2,3,7,8,12,13-hexabromo-10,15-dihydro- (CA INDEX NAME)



L3 ANSWER 10 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:187544 CAPLUS

DOCUMENT NUMBER: 149:186658

TITLE: Kinked star-shaped fluorene/triazatruxene co-oligomer hybrids with enhanced functional properties for high-performance, solution-processed, blue organic light-emitting diodes

AUTHOR(S): Lai, Wen-Yong; He, Qi-Yuan; Zhu, Rui; Chen, Qing-Quan; Huang, Wei

CORPORATE SOURCE: Institute of Advanced Materials (IAM), Nanjing University of Posts and Telecommunications (NUPT), Nanjing, 210003, Peop. Rep. China

SOURCE: Advanced Functional Materials (2008), 18(2), 265-276  
CODEN: AFMDC6; ISSN: 1616-301X

PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA

DOCUMENT TYPE: Journal

LANGUAGE: English

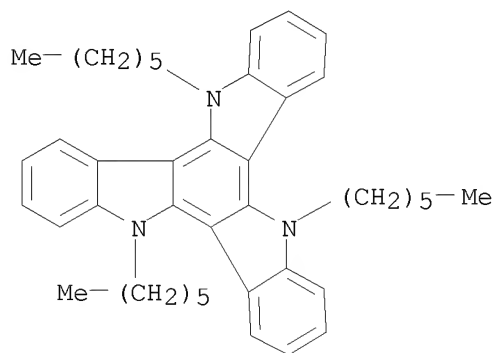
IT 1020085-72-6P 1039068-92-2P 1039068-95-5P  
1039068-98-8P

RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(kinked star-shaped fluorene/triazatruxene co-oligomer hybrids with enhanced functional properties for high-performance, solution-processed, blue organic light-emitting diodes)

RN 1020085-72-6 CAPLUS

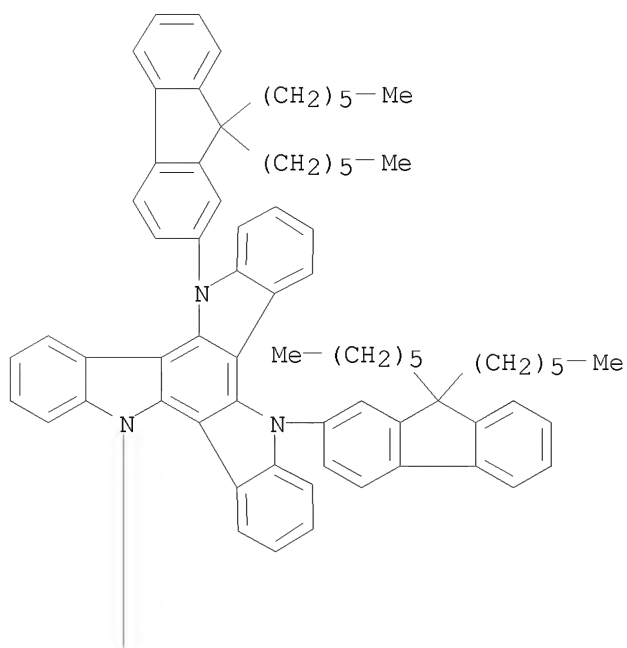
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 5,10,15-trihexyl-10,15-dihydro- (CA INDEX NAME)



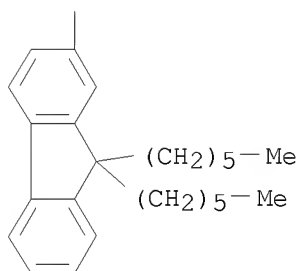
RN 1039068-92-2 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 5,10,15-tris(9,9-dihexyl-9H-fluoren-2-yl)-10,15-dihydro- (CA INDEX NAME)

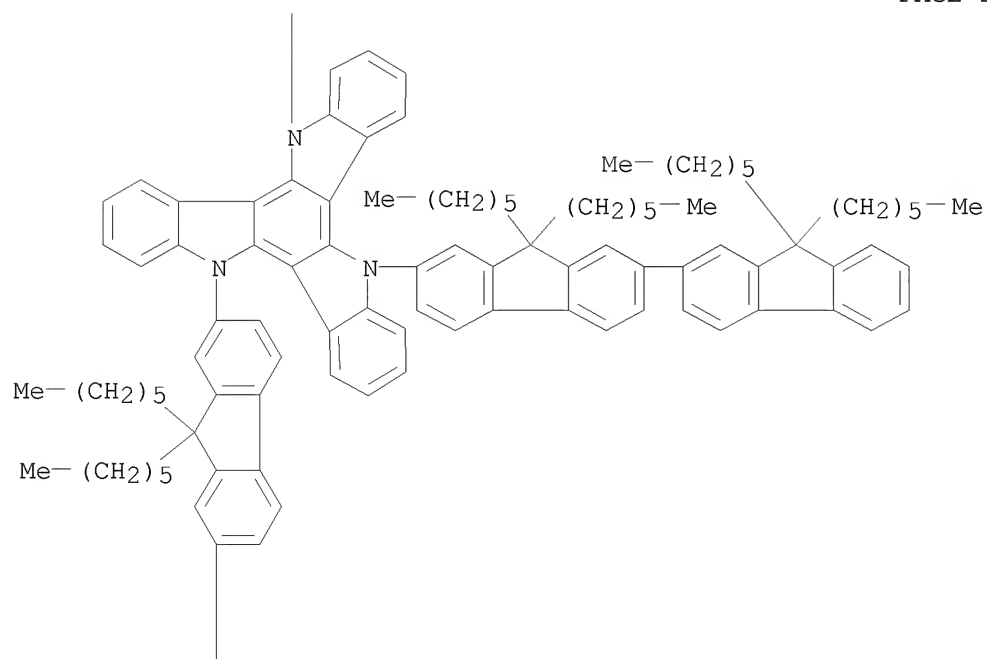
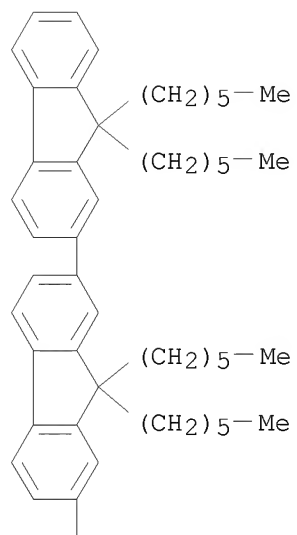
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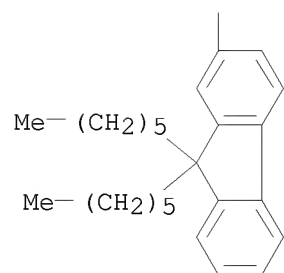


PAGE 2-A

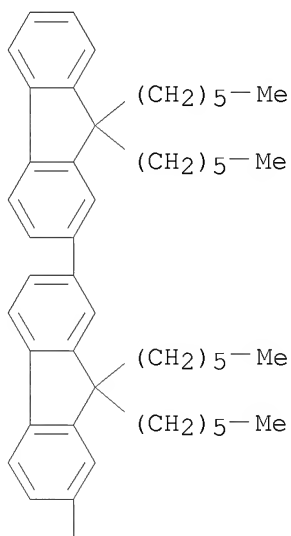


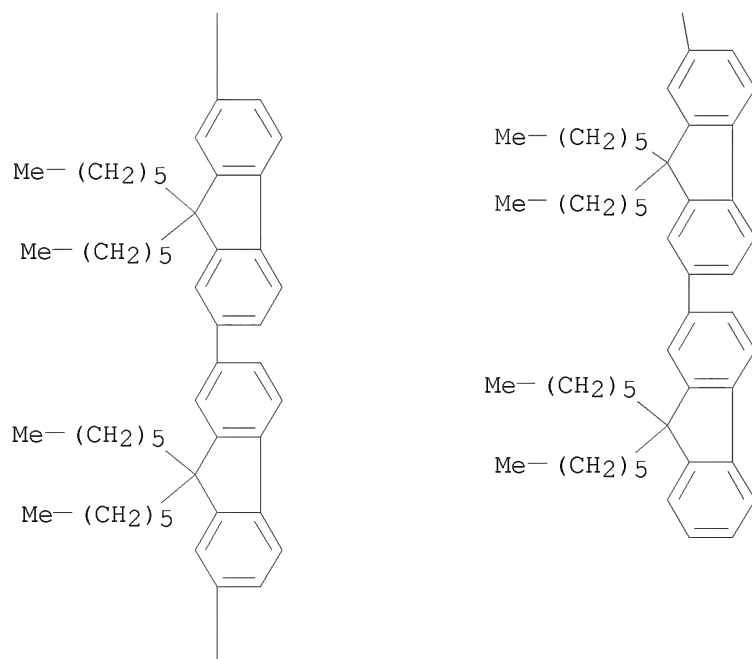
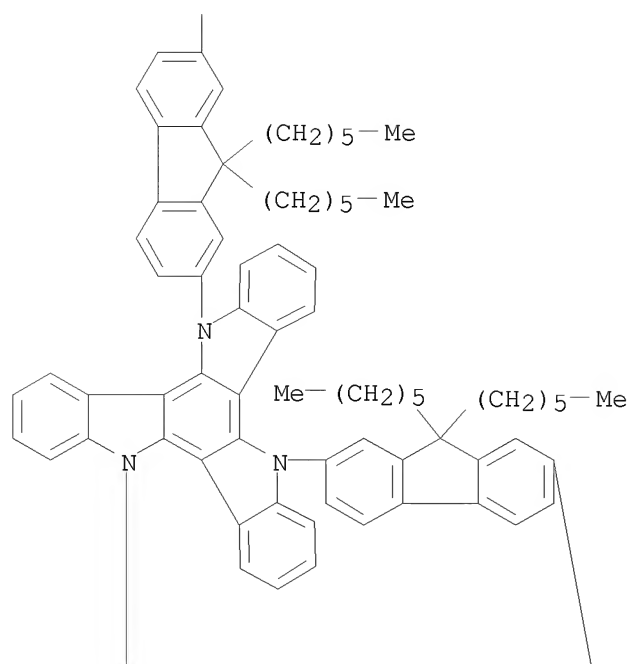
RN 1039068-95-5 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 10,15-dihydro-5,10,15-tris(9,9,9',9'-tetrahexyl[2,2'-bi-9H-fluoren]-7-yl)-  
 (CA INDEX NAME)



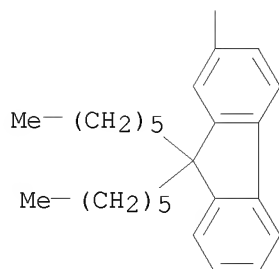


RN 1039068-98-8 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 5,10,15-tris(9,9,9',9',9'',9'''-hexahexyl[2,2':7',2''-ter-9H-fluoren]-7-yl)-  
 10,15-dihydro- (CA INDEX NAME)









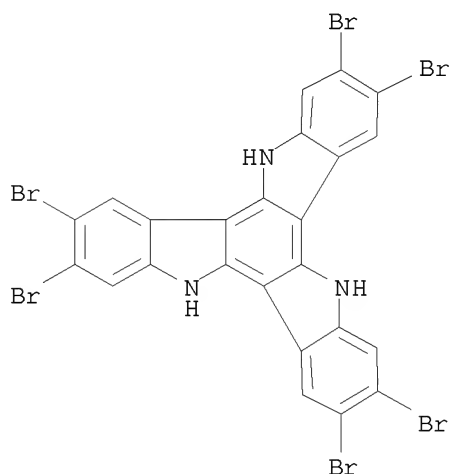
IT 307519-55-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(kinked star-shaped fluorene/triazatruxene co-oligomer hybrids with enhanced functional properties for high-performance, solution-processed, blue organic light-emitting diodes)

RN 307519-55-7 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
2,3,7,8,12,13-hexabromo-10,15-dihydro- (CA INDEX NAME)



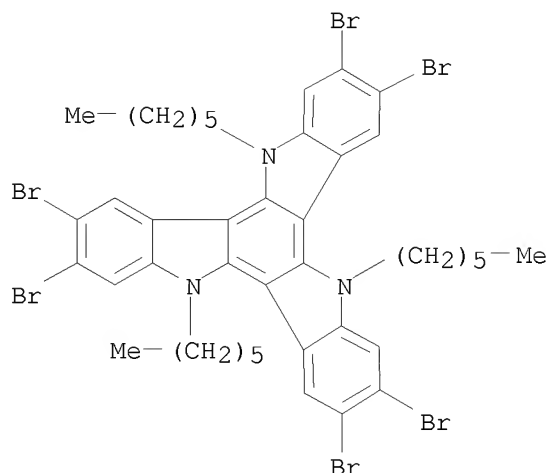
IT 894357-86-9P 1039068-89-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

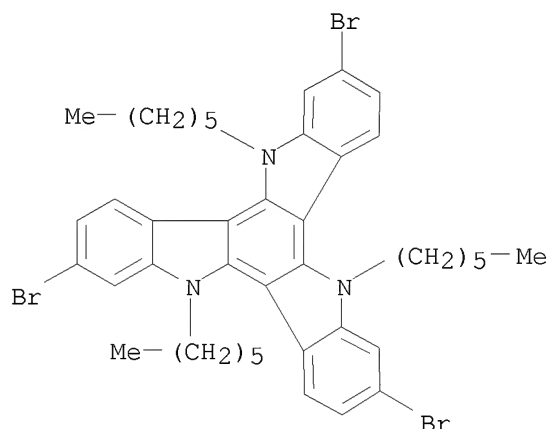
(kinked star-shaped fluorene/triazatruxene co-oligomer hybrids with enhanced functional properties for high-performance, solution-processed, blue organic light-emitting diodes)

RN 894357-86-9 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
2,3,7,8,12,13-hexabromo-5,10,15-trihexyl-10,15-dihydro- (CA INDEX NAME)



RN 1039068-89-7 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 2,7,12-tribromo-5,10,15-trihexyl-10,15-dihydro- (CA INDEX NAME)

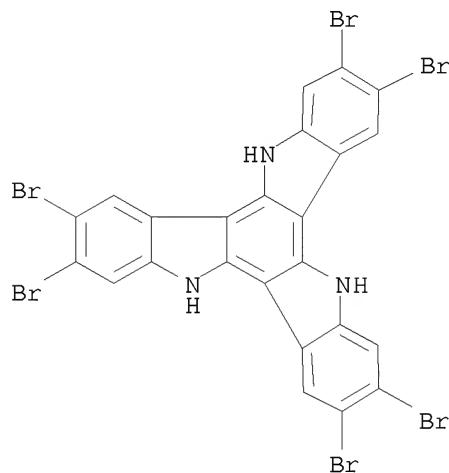


REFERENCE COUNT: 53 THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

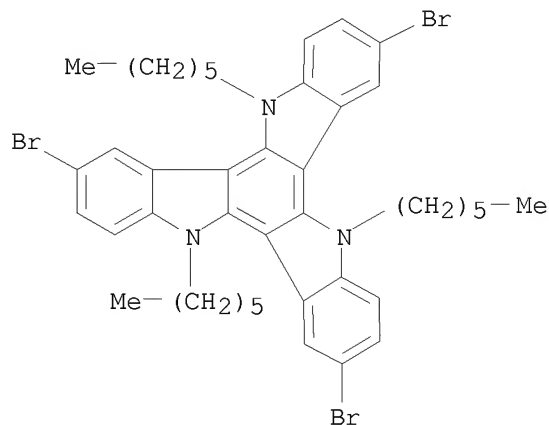
L3 ANSWER 11 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2007:1258768 CAPLUS  
 DOCUMENT NUMBER: 148:11064  
 TITLE: Process for preparation of  
 diindolo[3,2-a:3',2'-c]carbazole branching compounds  
 as function materials  
 INVENTOR(S): Huang, Wei; Lai, Wenyong  
 PATENT ASSIGNEE(S): Fudan University, Peop. Rep. China  
 SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 48pp.  
 CODEN: CNXXEV  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Chinese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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CN 101062929                      A            20071031            CN 2007-10041725            20070607  
 PRIORITY APPLN. INFO.:                      CN 2007-10041725            20070607  
 OTHER SOURCE(S):                      CASREACT 148:11064; MARPAT 148:11064  
 IT    307519-55-7P  
       RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
       (Reactant or reagent)  
       (intermediate; preparation of branching compds. as function materials)  
 RN    307519-55-7    CAPLUS  
 CN    5H-Diindolo[3,2-a:3',2'-c]carbazole,  
       2,3,7,8,12,13-hexabromo-10,15-dihydro-    (CA INDEX NAME)

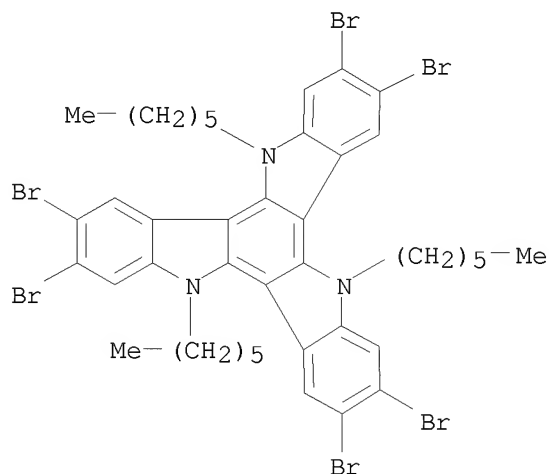


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       957897-27-7P 957897-34-6P 957897-37-9P  
       957897-39-1P 957897-42-6P  
       RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
       (Reactant or reagent)  
       (intermediate; preparation of tricarbazole branching compds. as function  
       materials)  
 RN    862856-06-2    CAPLUS  
 CN    5H-Diindolo[3,2-a:3',2'-c]carbazole,  
       3,8,13-tribromo-5,10,15-trihexyl-10,15-dihydro-    (CA INDEX NAME)

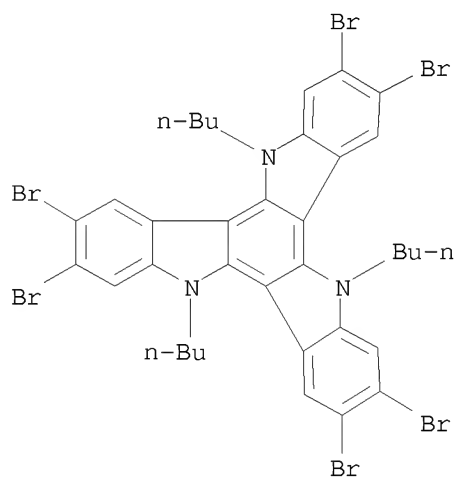


RN    894357-86-9    CAPLUS

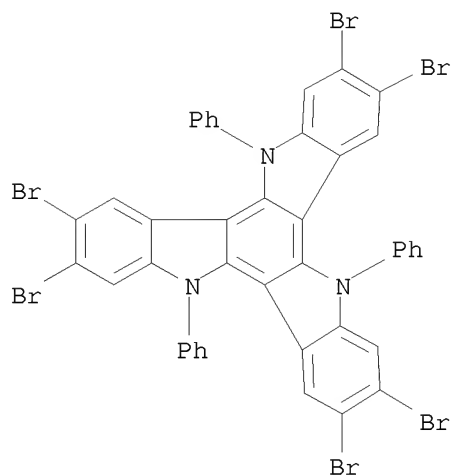
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RN 957897-02-8 CAPLUS  
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
2,3,7,8,12,13-hexabromo-5,10,15-tributyl-10,15-dihydro- (CA INDEX NAME)

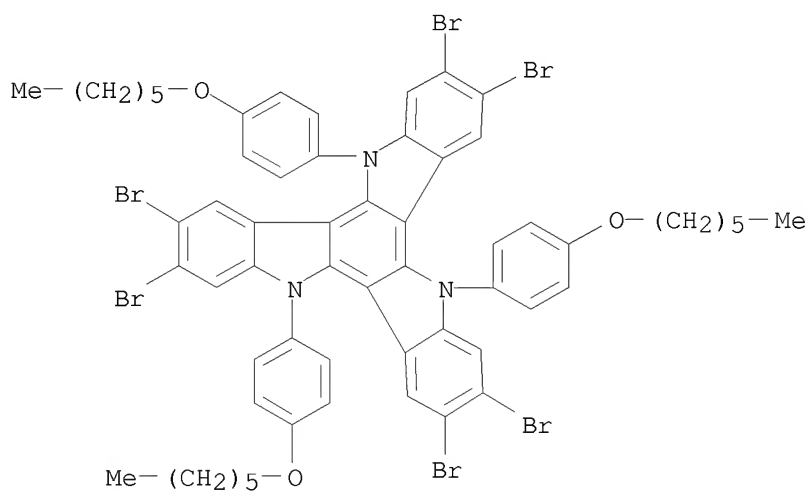


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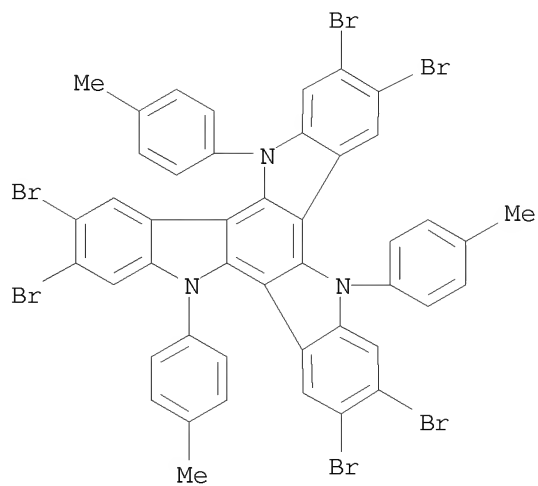
RN 957897-12-0 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
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(CA INDEX NAME)

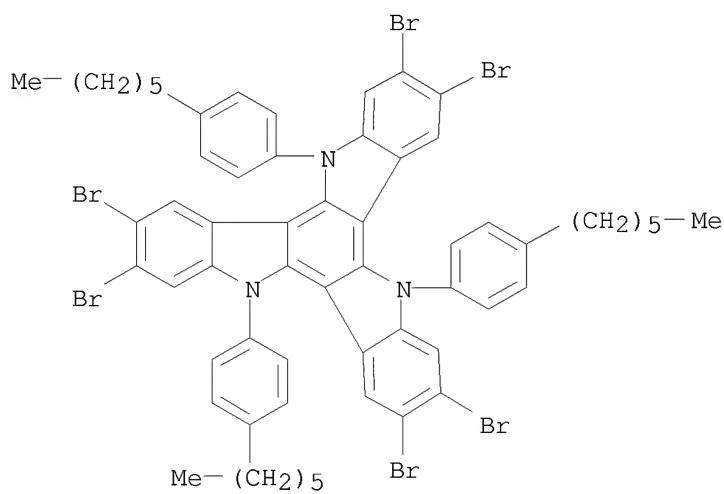


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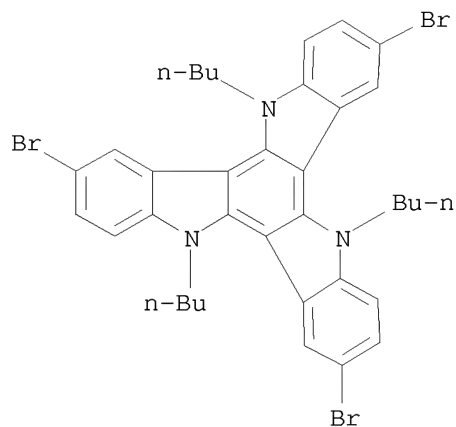
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RN 957897-27-7 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
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 INDEX NAME)

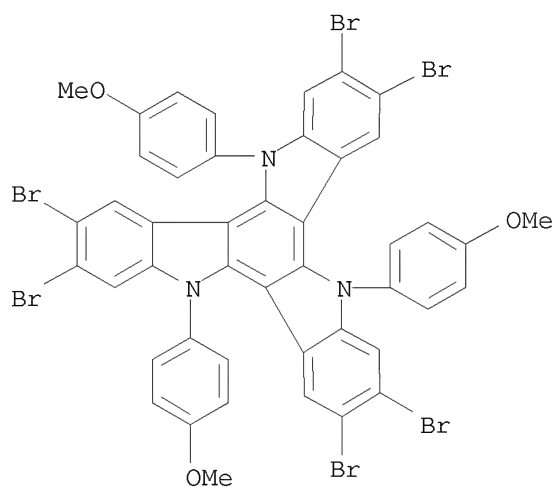


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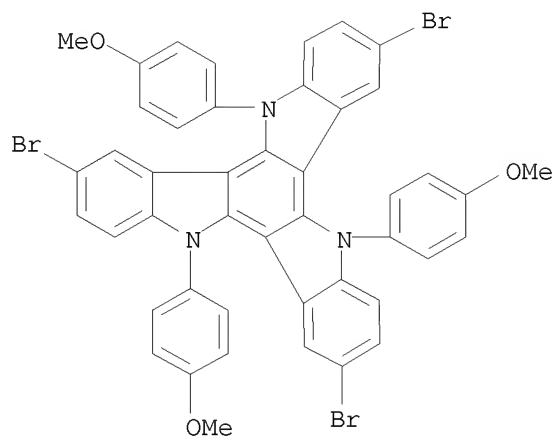
RN 957897-37-9 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
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INDEX NAME)

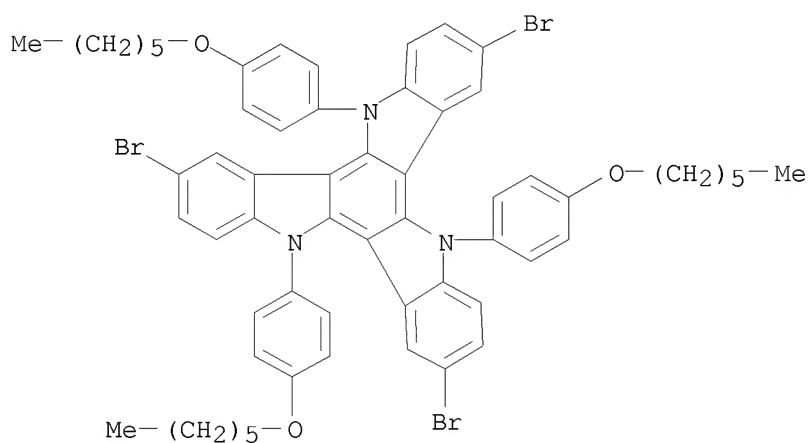


RN 957897-39-1 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
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NAME)

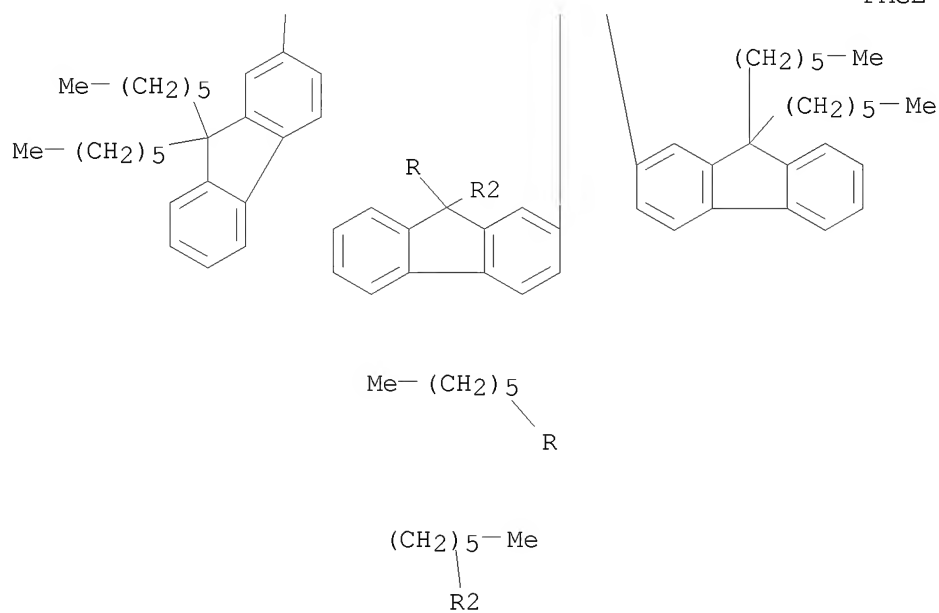
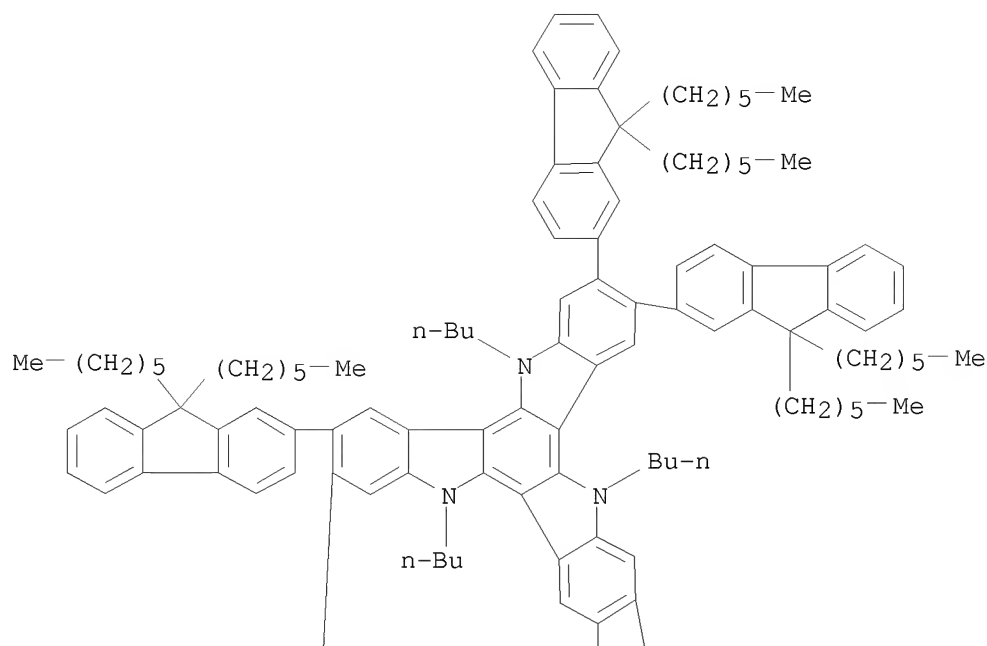


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 3,8,13-tribromo-5,10,15-tris[4-(hexyloxy)phenyl]-10,15-dihydro- (CA INDEX  
 NAME)



IT 957896-80-9P  
 RL: SPN (Synthetic preparation); TEM (Technical or engineered material  
 use); PREP (Preparation); USES (Uses)  
 (preparation of diindolo[3,2-a:3',2'-c]carbazole branching compds. as  
 function materials)  
 RN 957896-80-9 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 5,10,15-tributyl-2,3,7,8,12,13-hexakis(9,9-dihexyl-9H-fluoren-2-yl)-10,15-  
 dihydro- (CA INDEX NAME)

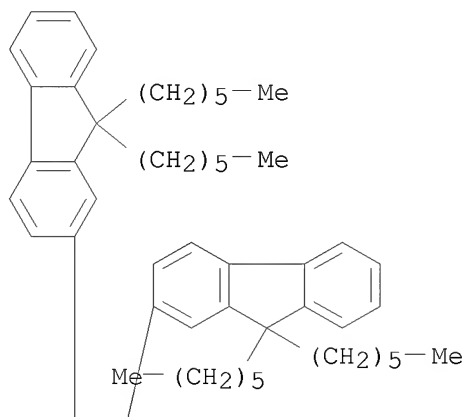




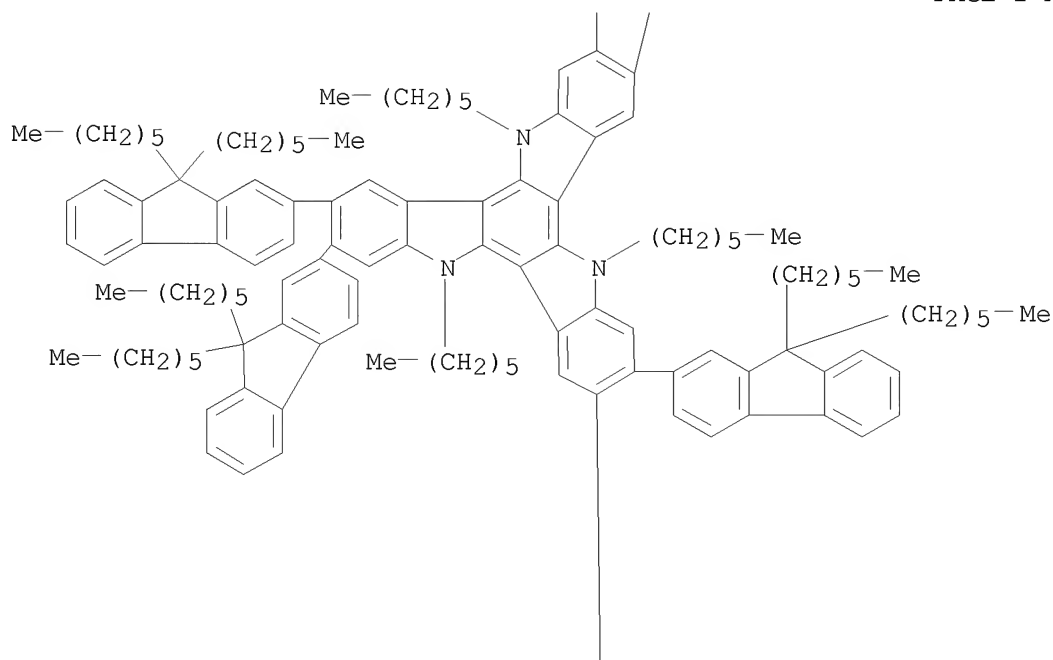
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 957896-89-8P 957896-92-3P 957896-96-7P  
 957896-97-8P 957896-98-9P  
 RL: SPN (Synthetic preparation); TEM (Technical or engineered material  
 use); PREP (Preparation); USES (Uses)  
 (preparation of tricarbazole branching compds. as function materials)  
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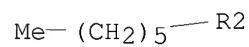
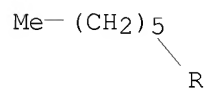
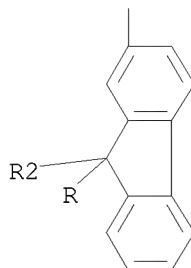
2,3,7,8,12,13-hexakis(9,9-dihexyl-9H-fluoren-2-yl)-5,10,15-trihexyl-10,15-dihydro- (CA INDEX NAME)

PAGE 1-A

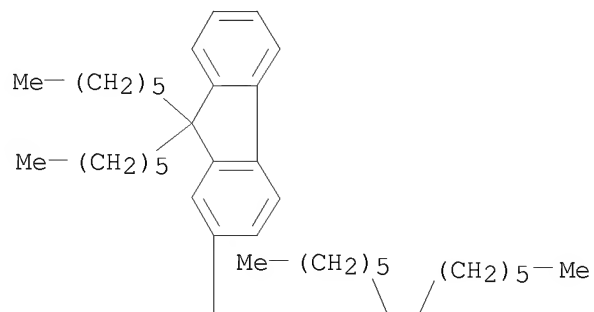


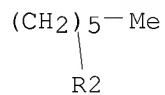
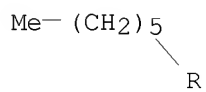
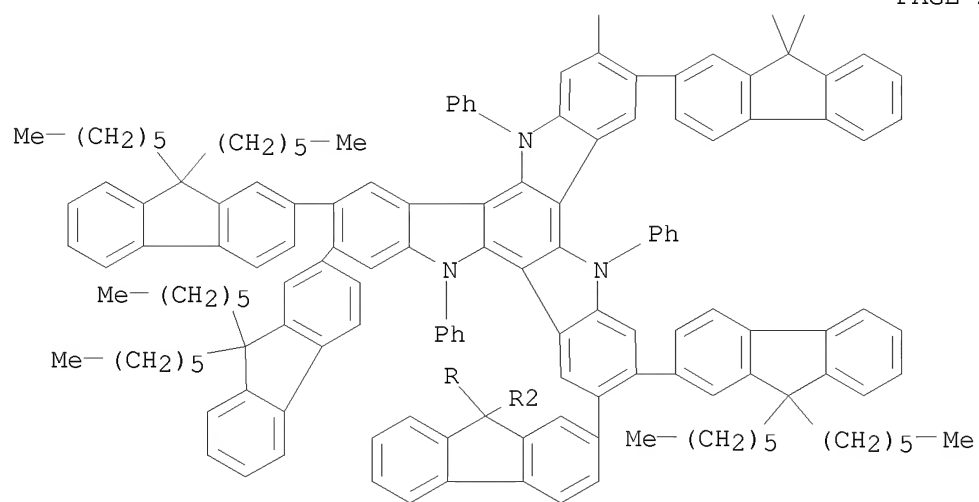
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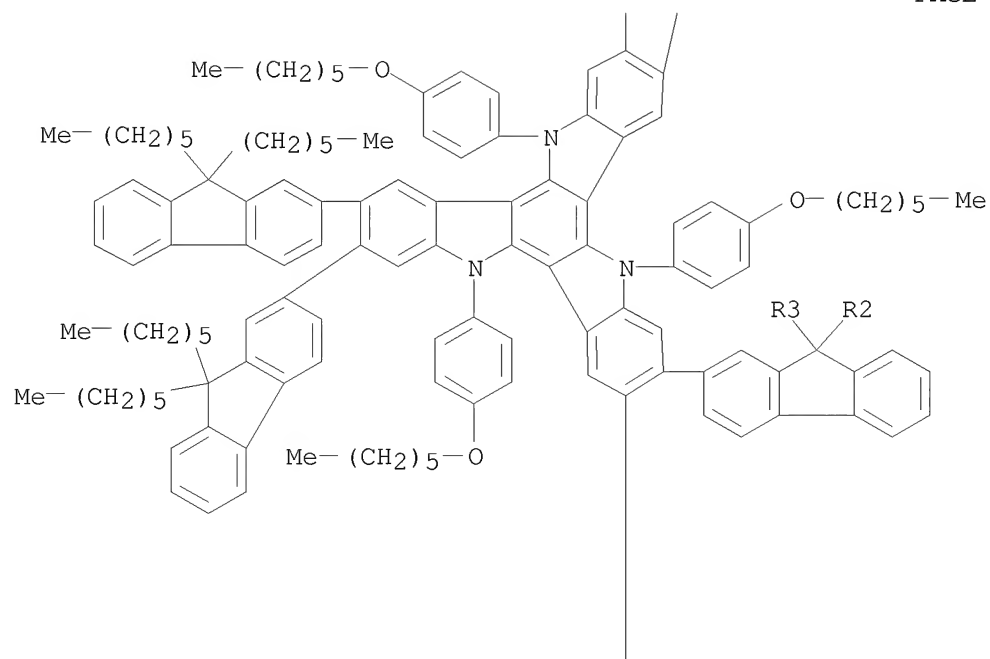
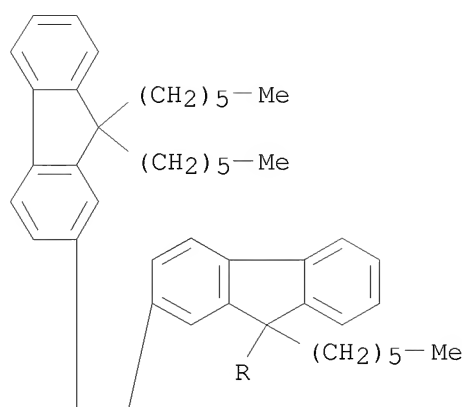


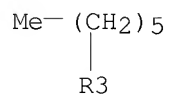
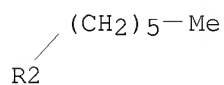
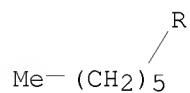
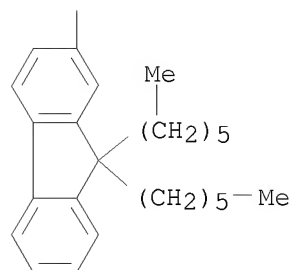
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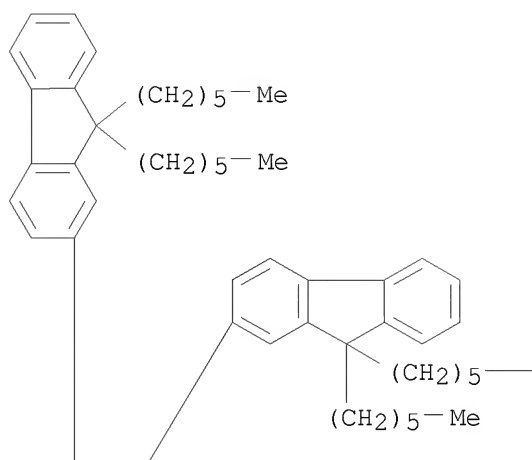


RN 957896-88-7 CAPLUS  
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 2,3,7,8,12,13-hexakis(9,9-dihexyl-9H-fluoren-2-yl)-5,10,15-tris[4-(hexyloxy)phenyl]-10,15-dihydro- (CA INDEX NAME)

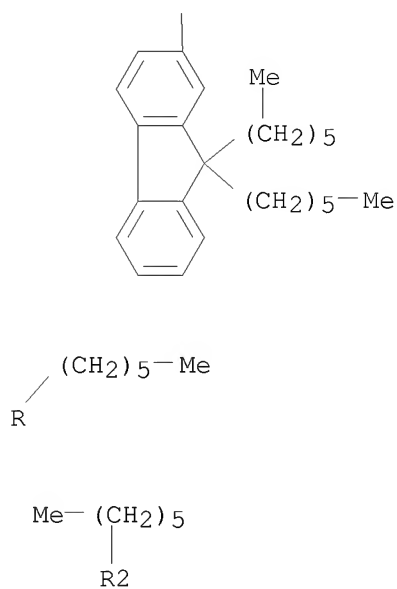
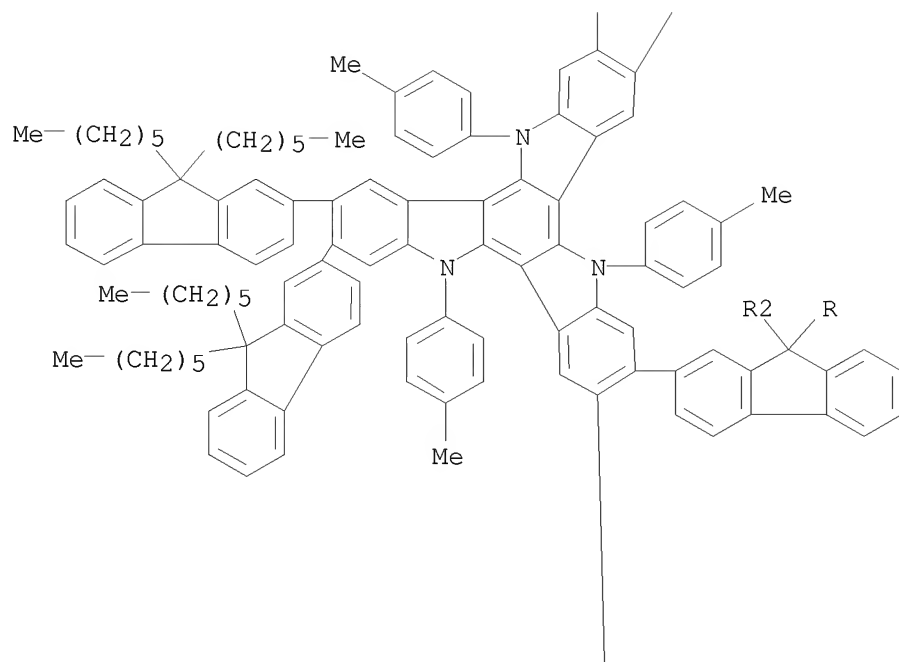




RN 957896-89-8 CAPLUS  
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 2,3,7,8,12,13-hexakis(9,9-dihexyl-9H-fluoren-2-yl)-10,15-dihydro-5,10,15-  
 tris(4-methylphenyl)- (CA INDEX NAME)

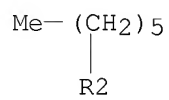
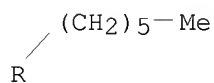
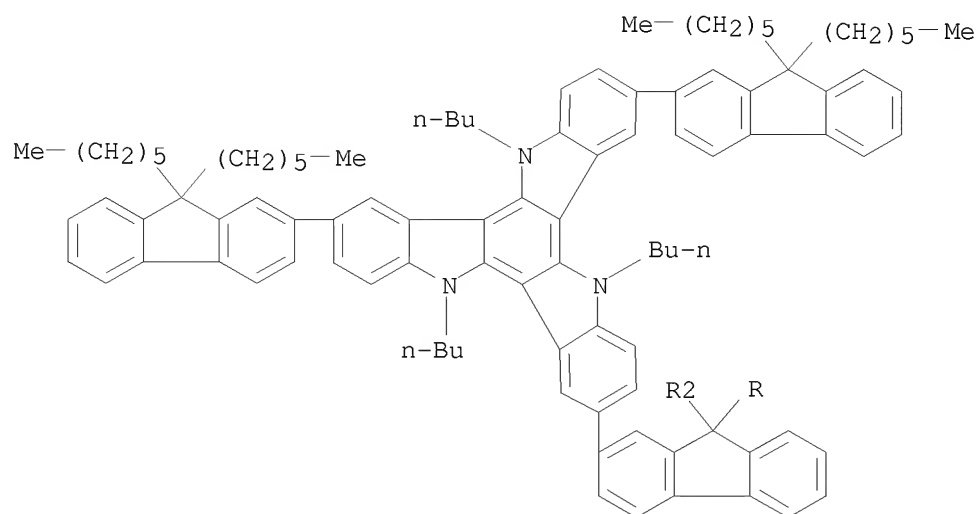


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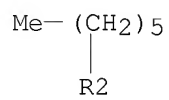
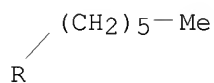
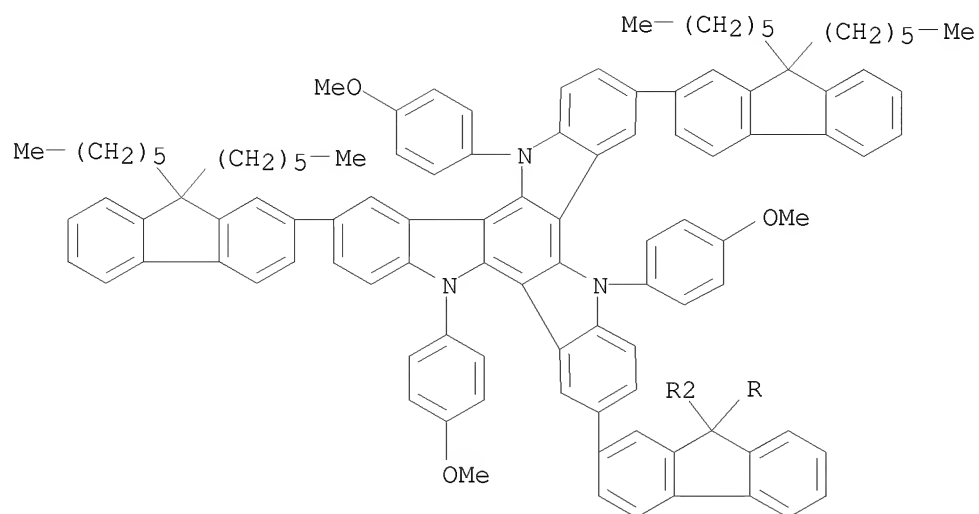


RN 957896-92-3 CAPLUS  
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 (CA INDEX NAME)

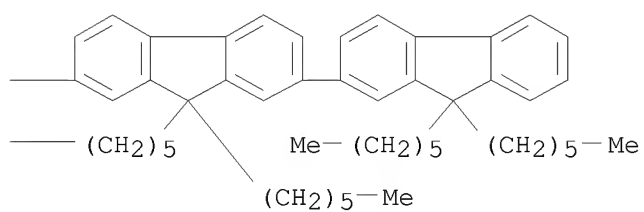
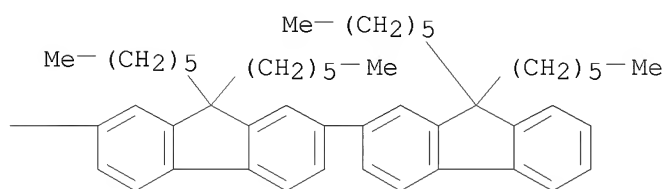
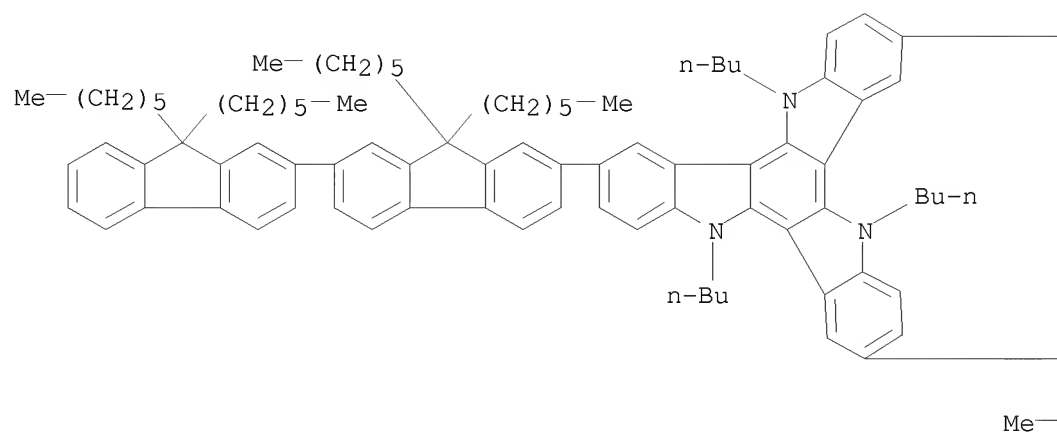




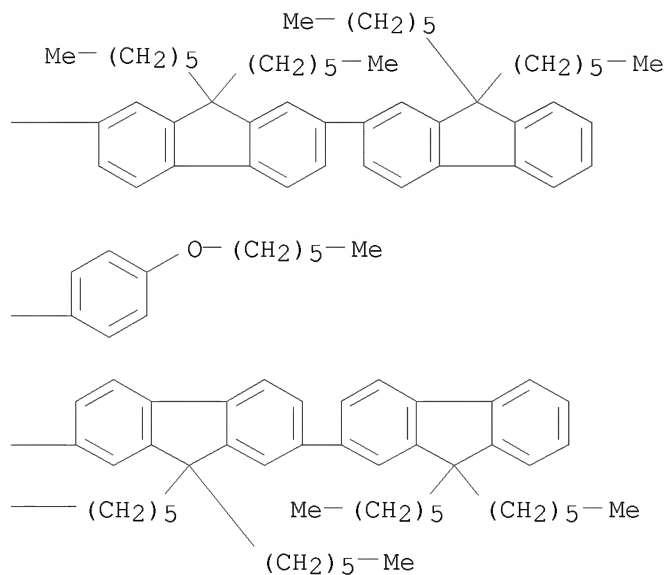
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 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 3,8,13-tris(9,9-dihexyl-9H-fluoren-2-yl)-10,15-dihydro-5,10,15-tris(4-  
 methoxyphenyl)- (CA INDEX NAME)



RN 957896-97-8 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 5,10,15-tributyl-10,15-dihydro-3,8,13-tris(9,9,9',9'-tetrahexyl[2,2'-bi-9H-  
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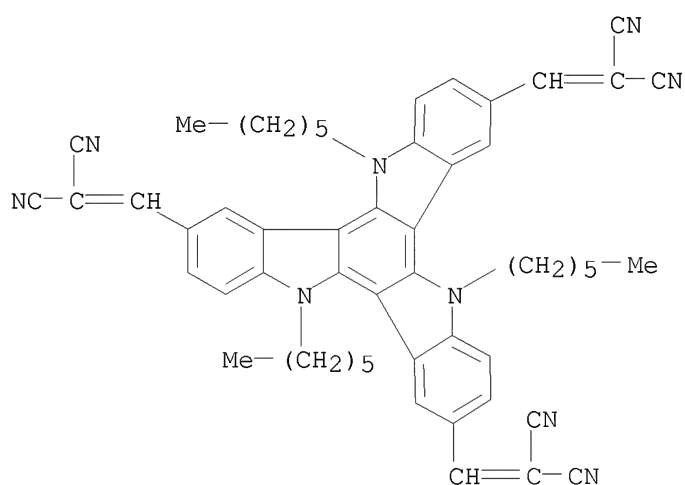
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CN	5H-Diindolo[3,2-a:3',2'-c]carbazole, 5,10,15-tris[4-(hexyloxy)phenyl]-10,15-dihydro-3,8,13-tris(9,9,9',9'- tetrahexyl[2,2'-bi-9H-fluoren]-7-yl)- (CA INDEX NAME)	



L3 ANSWER 12 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN  
ACCESSION NUMBER: 2007:974830 CAPLUS  
DOCUMENT NUMBER: 147:287873  
TITLE: Nonlinear optical material  
INVENTOR(S): Hiyoshi, Hidetaka; Oi, Hideo; Kumagaya, Hironobu;  
Wada, Tatsuo; Ikeda, Shigeru  
PATENT ASSIGNEE(S): Ihara Chemical Industry Co., Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 8pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 2007219024	A	20070830	JP 2006-37261	20060214
PRIORITY APPLN. INFO.:				JP 2006-37261	20060214
OTHER SOURCE(S):	MARPAT 147:287873				
IT	862856-16-4				
	RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)				
	(nonlinear optical material)				
RN	862856-16-4	CAPLUS			
CN	Propanedinitrile, 2,2',2''-[(5,10,15-trihexyl-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole-3,8,13-triyl)trimethylidyne]tris- (CA INDEX NAME)				



L3 ANSWER 13 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:554057 CAPLUS

DOCUMENT NUMBER: 147:166216

TITLE: Donor- $\pi$ -acceptor type symmetric cyclic triindoles: synthesis and properties

AUTHOR(S): Hiyoshi, Hidetaka; Kumagai, Hironobu; Ooi, Hideo; Sonoda, Takaaki; Mataka, Shuntaro

CORPORATE SOURCE: Advanced Materials Department, Ihara Chemical Industry Co. Ltd., 2256 Nakanogo, Fujikawa, Ihara, Shizuoka, 412-3306, Japan

SOURCE: Heterocycles (2007), 72, 231-238  
CODEN: HTCYAM; ISSN: 0385-5414

PUBLISHER: Japan Institute of Heterocyclic Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 147:166216

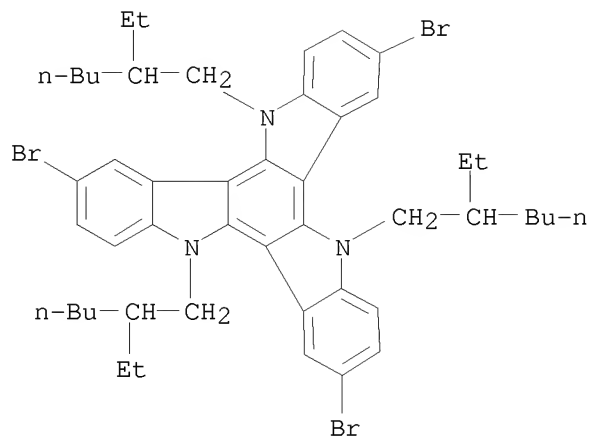
IT 862856-20-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

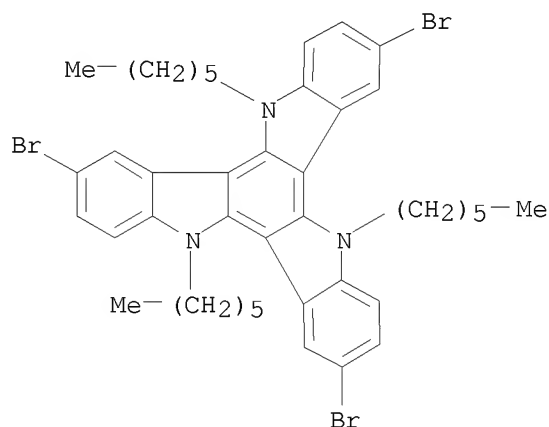
(preparation of sym. cyclic triindoles by cyclotrimerization of bromoindolinone and Suzuki cross-coupling)

RN 862856-20-0 CAPLUS

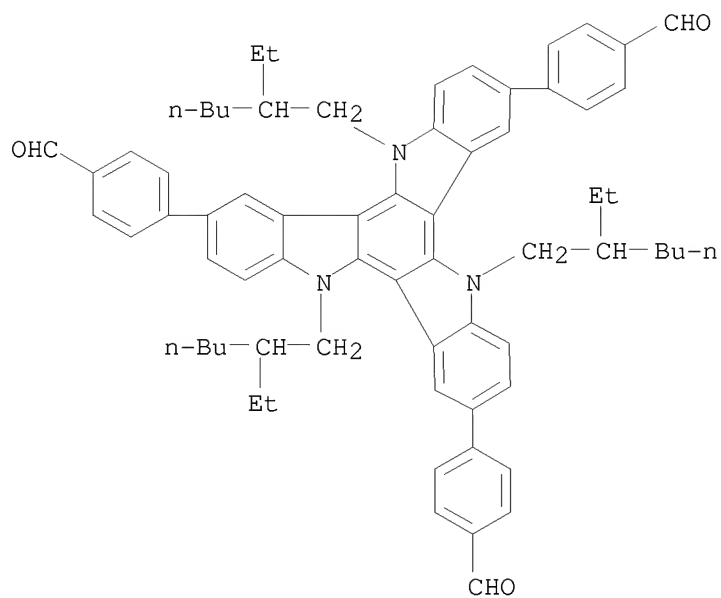
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 3,8,13-tribromo-5,10,15-tris(2-ethylhexyl)-10,15-dihydro- (CA INDEX NAME)



IT 862856-06-2P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of sym. cyclic triindoles by cyclotrimerization of  
 bromoindolinone and Suzuki cross-coupling)  
 RN 862856-06-2 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 3,8,13-tribromo-5,10,15-trihexyl-10,15-dihydro- (CA INDEX NAME)

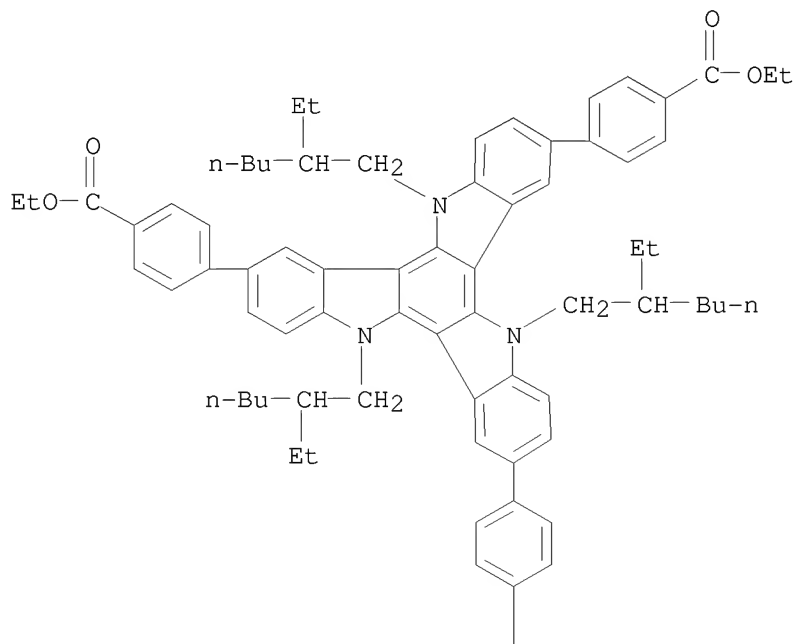


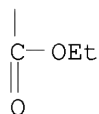
IT 943862-57-5P 943862-58-6P 943862-60-0P  
 RL: PEP (Physical, engineering or chemical process); PRP (Properties); SPN  
 (Synthetic preparation); PREP (Preparation); PROC (Process)  
 (preparation, oxidation potential, UV fluorescence, and photoluminescence  
 due to intramol. charge transfer)  
 RN 943862-57-5 CAPLUS  
 CN Benzaldehyde, 4,4',4''-[5,10,15-tris(2-ethylhexyl)-10,15-dihydro-5H-  
 diindolo[3,2-a:3',2'-c]carbazole-3,8,13-triyl]tris- (CA INDEX NAME)



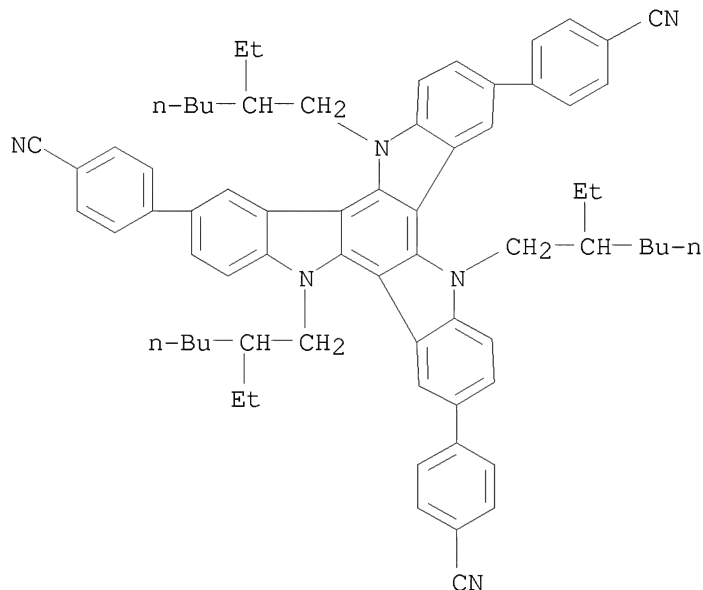
RN 943862-58-6 CAPLUS  
 CN Benzoic acid, 4,4',4''-[5,10,15-tris(2-ethylhexyl)-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole-3,8,13-triyl]tris-, 1,1',1''-triethyl ester (CA INDEX NAME)

PAGE 1-A





RN 943862-60-0 CAPLUS  
 CN Benzonitrile, 4,4',4'''-[5,10,15-tris(2-ethylhexyl)-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole-3,8,13-triyl]tris- (CA INDEX NAME)



REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 14 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:486380 CAPLUS

DOCUMENT NUMBER: 146:470852

TITLE: Method for purification of indole derivative trimer, electrode active substance comprising the purified trimer, method for manufacturing the electrode active substance, and electrochemical cell using the same

INVENTOR(S): Nobuta, Tomoki; Nishiyama, Toshihiko; Takahashi, Naoki; Yoshinari, Tetsuya; Mizukoshi, Takashi

PATENT ASSIGNEE(S): NEC Tokin Corp., Japan

SOURCE: U.S. Pat. Appl. Publ., 11 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

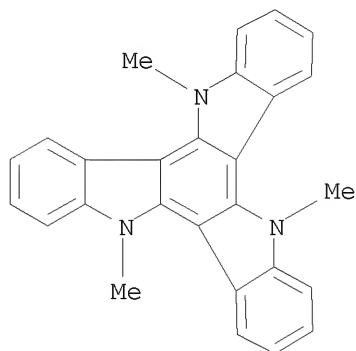
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

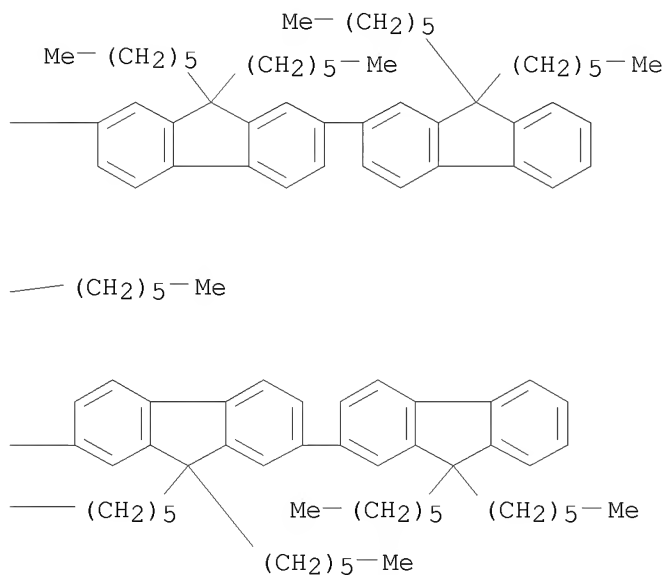
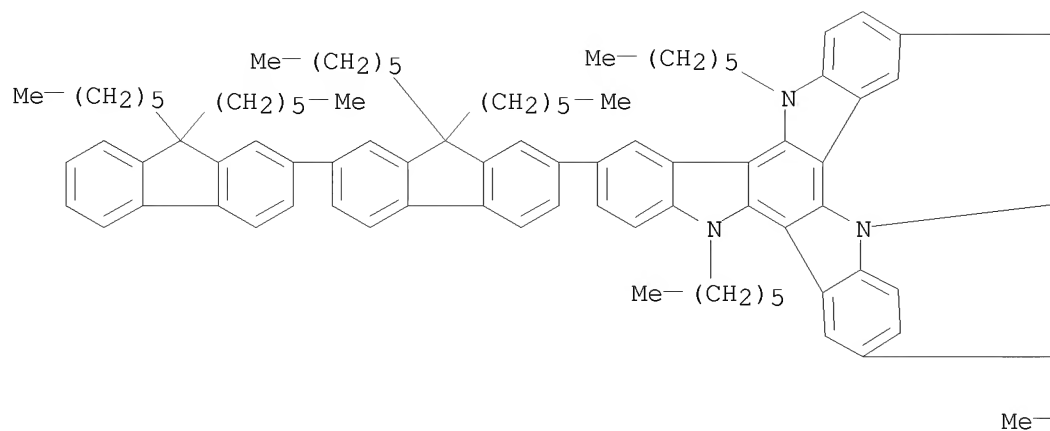
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20070095656	A1	20070503	US 2006-588375	20061027
JP 2007119386	A	20070517	JP 2005-312571	20051027
CN 1982312	A	20070620	CN 2006-10132015	20061019
PRIORITY APPLN. INFO.:			JP 2005-312571	A 20051027



IT 75833-66-8P  
 RL: FMU (Formation, unclassified); PEP (Physical, engineering or chemical process); PUR (Purification or recovery); TEM (Technical or engineered material use); FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process); USES (Uses)  
 (purification of indole derivative trimer for use as, electrode active substance)  
 RN 75833-66-8 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro-5,10,15-trimethyl- (CA INDEX NAME)



L3 ANSWER 15 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2007:441233 CAPLUS  
 DOCUMENT NUMBER: 147:175706  
 TITLE: Deep-blue light emitting triazatruxene core/oligo-fluorene branch dendrimers for electroluminescence and optical gain applications  
 AUTHOR(S): Levermore, P. A.; Xia, R.; Lai, W.; Wang, X. H.; Huang, W.; Bradley, D. D. C.  
 CORPORATE SOURCE: Experimental Solid State Physics Group, Department of Physics, Imperial College London, London, SW7 2AZ, UK  
 SOURCE: Journal of Physics D: Applied Physics (2007), 40(7), 1896-1901  
 CODEN: JPAPBE; ISSN: 0022-3727  
 PUBLISHER: Institute of Physics Publishing  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 IT 943967-38-2  
 RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
 (pristine and as polymer blend with F8BT; deep-blue light emitting triazatruxene core/oligo-fluorene branch dendrimers for electroluminescence and optical gain applications)  
 RN 943967-38-2 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 5,10,15-trihexyl-10,15-dihydro-3,8,13-tris(9,9,9',9'-tetrahexyl[2,2'-bi-9H-fluoren]-7-yl)- (CA INDEX NAME)



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 16 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2007:143971 CAPLUS  
 DOCUMENT NUMBER: 146:206315  
 TITLE: Preparation of oxadiazole-substituted Sym-triindole derivatives as organic electroluminescent devices  
 INVENTOR(S): Hiyoshi, Hidetaka; Wada, Tatsuo; Aoyama, Tetsuya  
 PATENT ASSIGNEE(S): Ihara Chemical Industry Co., Ltd., Japan  
 SOURCE: PCT Int. Appl., 64pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007015414	A1	20070208	WO 2006-JP314861	20060727
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			

PRIORITY APPLN. INFO.: JP 2005-223152 A 20050801

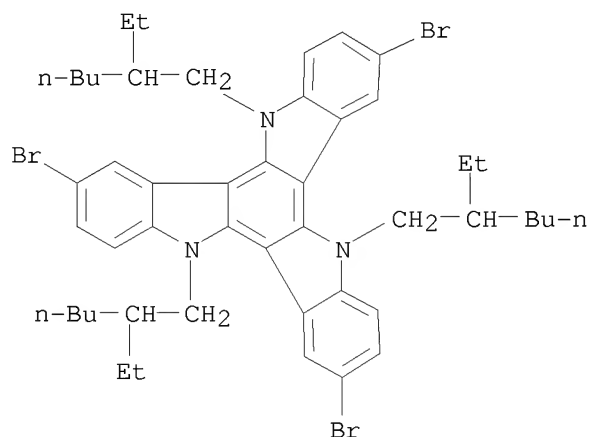
OTHER SOURCE(S): MARPAT 146:206315

IT 862856-20-0

RL: RCT (Reactant); RACT (Reactant or reagent)  
(preparation of oxadiazole-substituted Sym-triindole derivs. as organic electroluminescent devices)

RN 862856-20-0 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
3,8,13-tribromo-5,10,15-tris(2-ethylhexyl)-10,15-dihydro- (CA INDEX NAME)

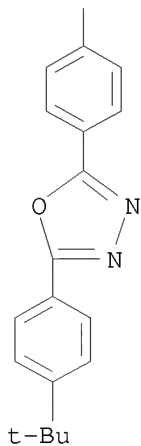
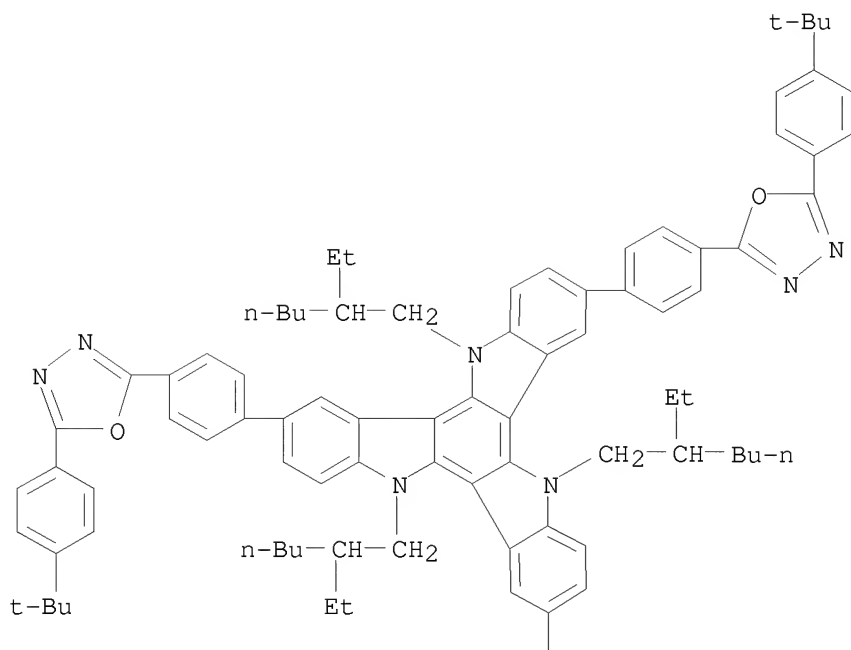


IT 923060-32-6P

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(preparation of oxadiazole-substituted Sym-triindole derivs. as organic electroluminescent devices)

RN 923060-32-6 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
3,8,13-tris[4-[5-[4-(1,1-dimethylethyl)phenyl]-1,3,4-oxadiazol-2-yl]phenyl]-5,10,15-tris(2-ethylhexyl)-10,15-dihydro- (CA INDEX NAME)



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 17 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:71686 CAPLUS

DOCUMENT NUMBER: 146:346308

TITLE: Structure, stability and spectroscopic properties of isomers of C<sub>48</sub>B<sub>6</sub>N<sub>6</sub> heterofullerene with isolated and sequential BN substitutional patterns

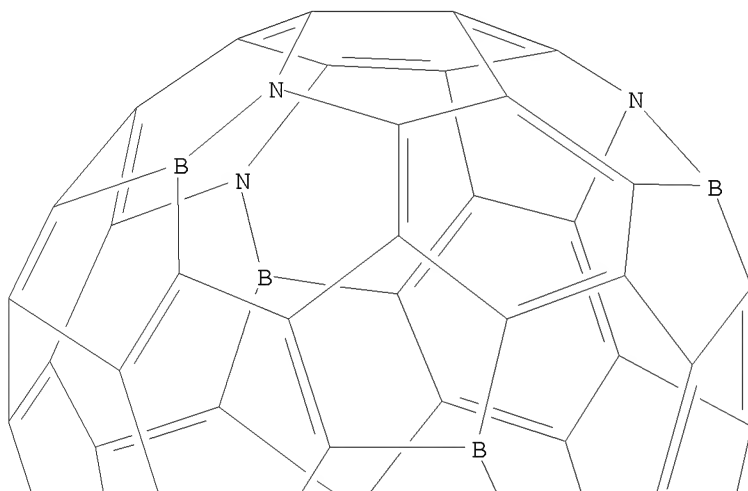
AUTHOR(S): Emanuele, Emanuela; Negri, Fabrizia; Orlandi, Giorgio

CORPORATE SOURCE: Dipartimento di Chimica G. Ciamician, Universita di Bologna, Bologna, 40126, Italy

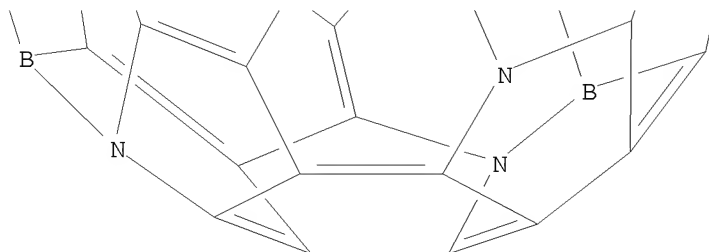
SOURCE: Inorganica Chimica Acta (2007), 360(3), 1052-1062

CODEN: ICHAA3; ISSN: 0020-1693  
PUBLISHER: Elsevier B.V.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
IT 929199-96-2 929199-98-4 929199-99-5  
929200-00-0  
RL: PRP (Properties)  
(structure, stability and spectroscopic properties of isomers of  
C<sub>48</sub>B<sub>6</sub>N<sub>6</sub> heterofullerene with isolated and sequential BN substitutional  
patterns)  
RN 929199-96-2 CAPLUS  
CN 1,16,30,40,44,60-Hexaaza-9,17,21,31,45,52-hexabora[5,6]fullerene-C<sub>60</sub>-Ih  
(CA INDEX NAME)

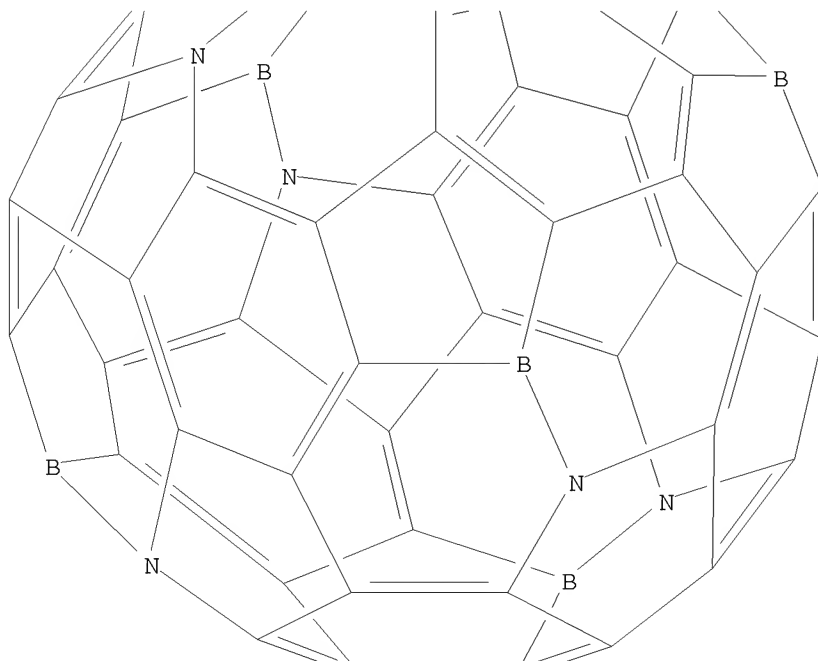
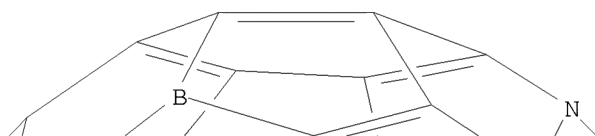
PAGE 1-A



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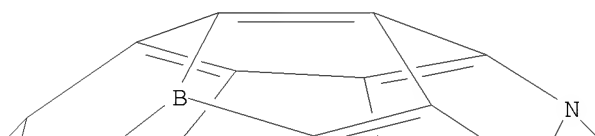


RN 929199-98-4 CAPLUS  
CN 1,16,30,40,44,52-Hexaaza-9,17,21,31,45,60-hexabora[5,6]fullerene-C<sub>60</sub>-Ih  
(CA INDEX NAME)

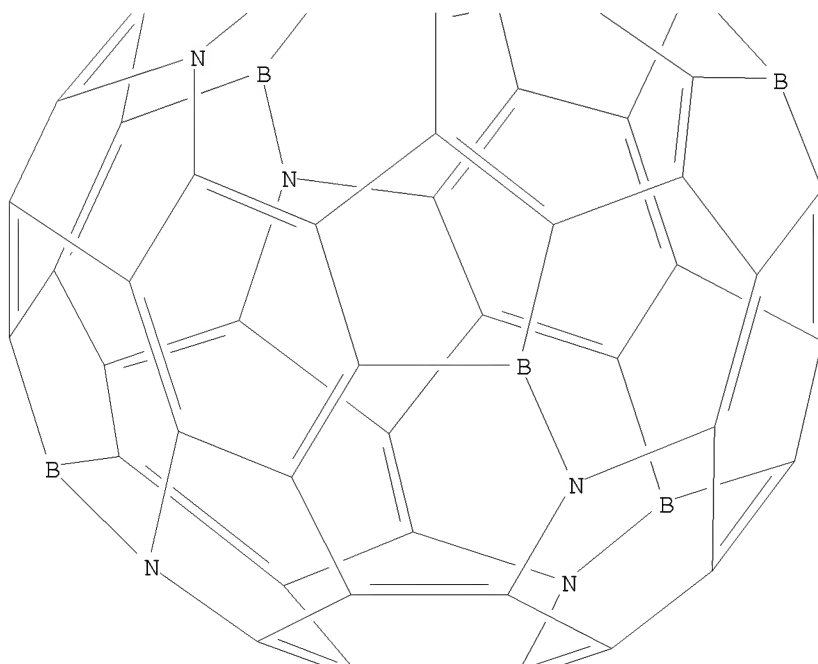


RN 929199-99-5 CAPLUS  
CN 1,16,31,40,44,52-Hexaaza-9,17,21,30,45,60-hexabora[5,6]fullerene-C60-Ih  
(CA INDEX NAME)

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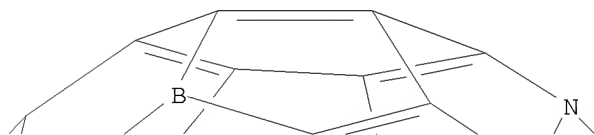


PAGE 3-A

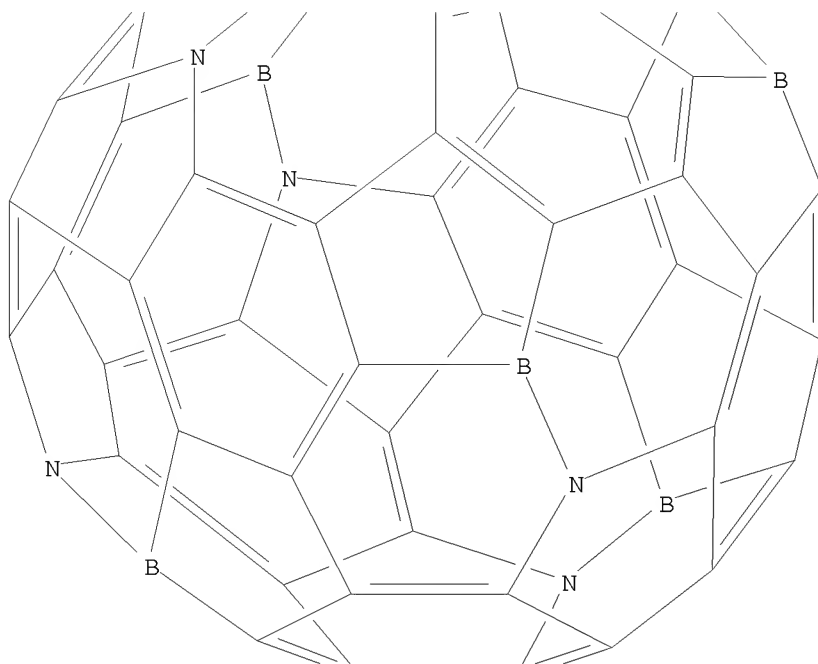


RN 929200-00-0 CAPLUS  
CN 1,16,21,30,45,52-Hexaaza-9,17,31,40,44,60-hexabora[5,6]fullerene-C60-Ih  
(CA INDEX NAME)

PAGE 1-A







REFERENCE COUNT: 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 18 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2006:1311391 CAPLUS  
 DOCUMENT NUMBER: 146:53595  
 TITLE: Organic electroluminescent devices  
 INVENTOR(S): Nakagawa, Masatoshi; Enomoto, Kazuhiro  
 PATENT ASSIGNEE(S): Sharp Corp., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 38pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

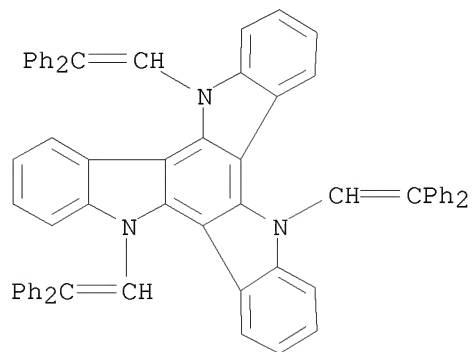
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006339319	A	20061214	JP 2005-160707	20050531
PRIORITY APPLN. INFO.:			JP 2005-160707	20050531

IT 916595-73-8 916595-74-9 916595-75-0  
 916595-76-1 916595-77-2 916595-78-3  
 916595-79-4 916595-80-7

RL: TEM (Technical or engineered material use); USES (Uses)  
 (organic EL devices containing organic hole-transport layers containing  
 tri-indole  
 derivs.)

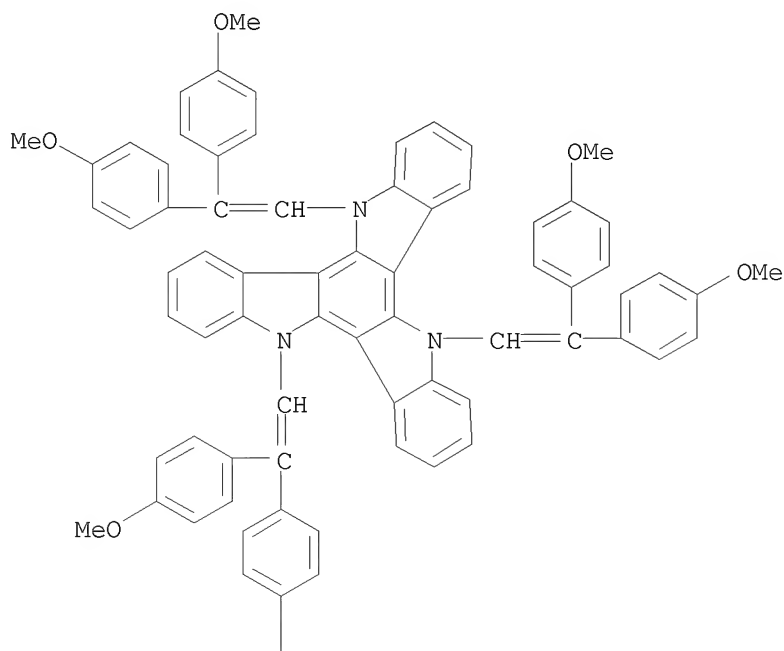
RN 916595-73-8 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
5,10,15-tris(2,2-diphenylethenyl)-10,15-dihydro- (CA INDEX NAME)



RN 916595-74-9 CAPLUS  
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
5,10,15-tris[2,2-bis(4-methoxyphenyl)ethenyl]-10,15-dihydro- (CA INDEX NAME)

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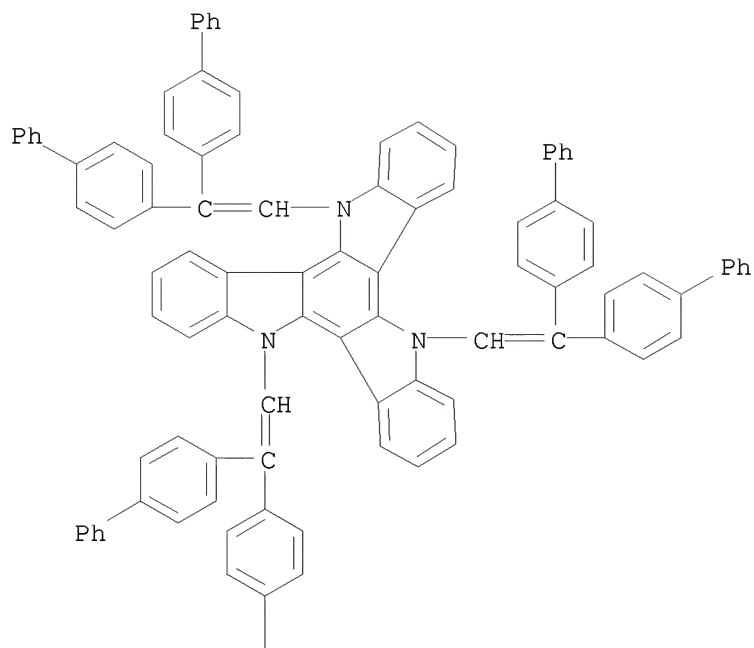
PAGE 2-A



RN 916595-75-0 CAPLUS  
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
5,10,15-tris[2,2-bis([1,1'-biphenyl]-4-yl)ethenyl]-10,15-dihydro- (CA

INDEX NAME)

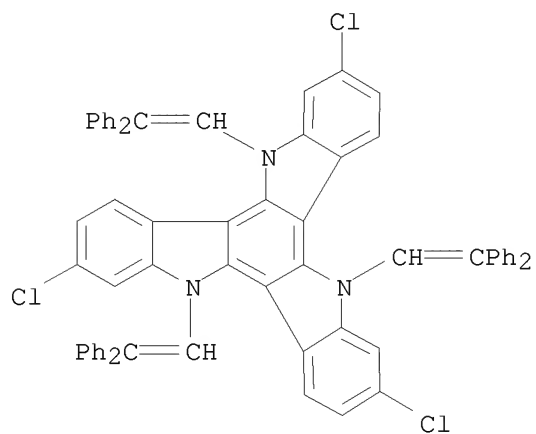
PAGE 1-A



PAGE 2-A

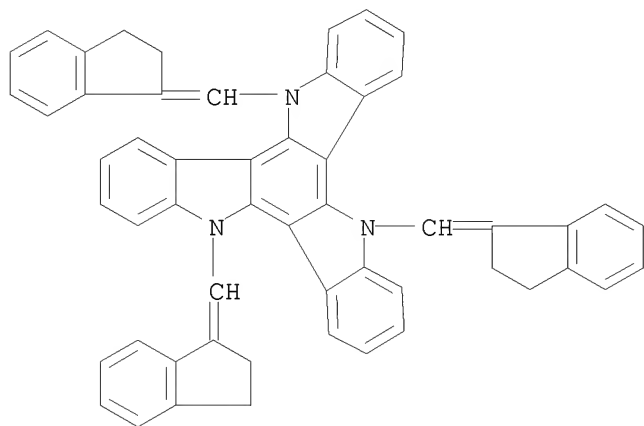


RN 916595-76-1 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 2,7,12-trichloro-5,10,15-tris(2,2-diphenylethenyl)-10,15-dihydro- (CA  
 INDEX NAME)

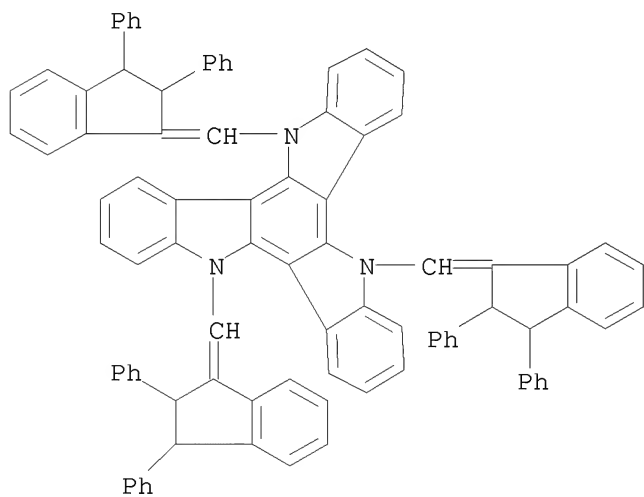


RN 916595-77-2 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,

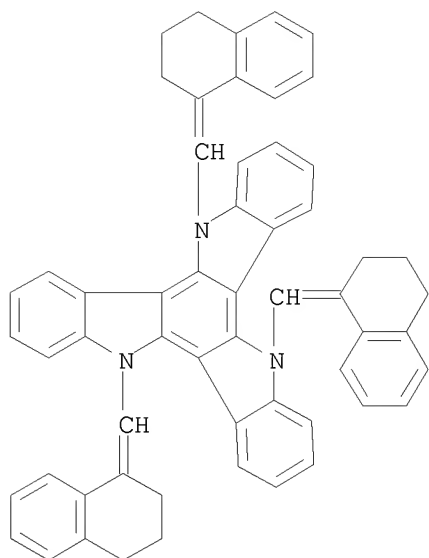
5,10,15-tris[(2,3-dihydro-1H-inden-1-ylidene)methyl]-10,15-dihydro- (CA INDEX NAME)



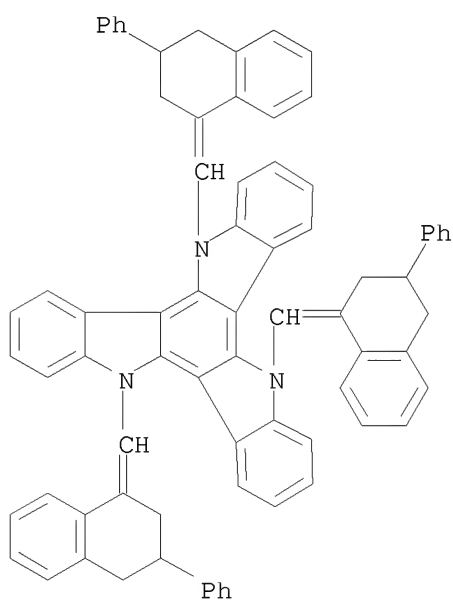
RN 916595-78-3 CAPLUS  
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
5,10,15-tris[(2,3-dihydro-2,3-diphenyl-1H-inden-1-ylidene)methyl]-10,15-dihydro- (CA INDEX NAME)



RN 916595-79-4 CAPLUS  
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
5,10,15-tris[(3,4-dihydro-1(2H)-naphthalenylidene)methyl]-10,15-dihydro- (CA INDEX NAME)

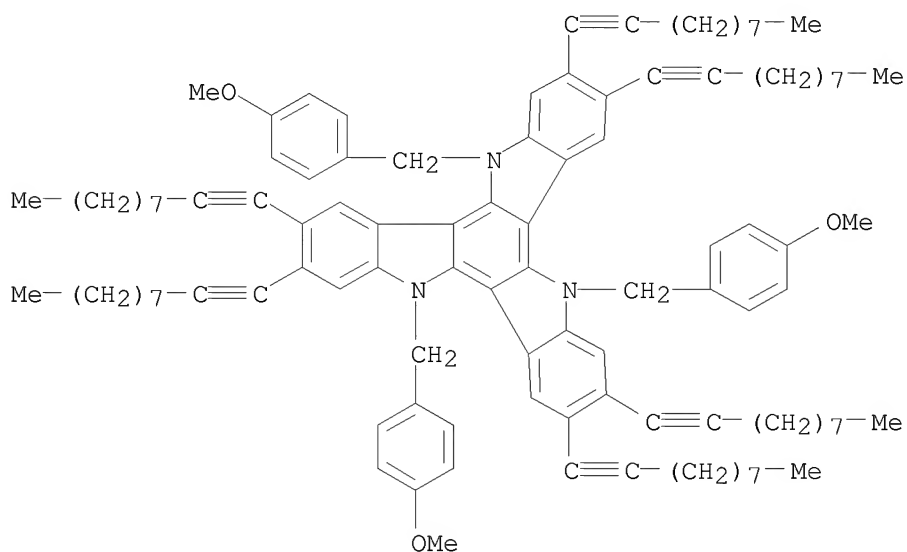


RN 916595-80-7 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 5,10,15-tris[(3,4-dihydro-3-phenyl-1(2H)-naphthalenylidene)methyl]-10,15-  
 dihydro- (CA INDEX NAME)

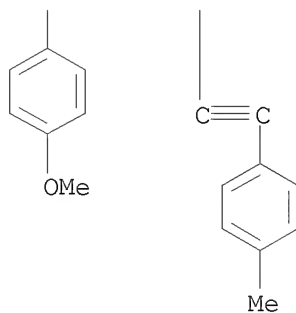
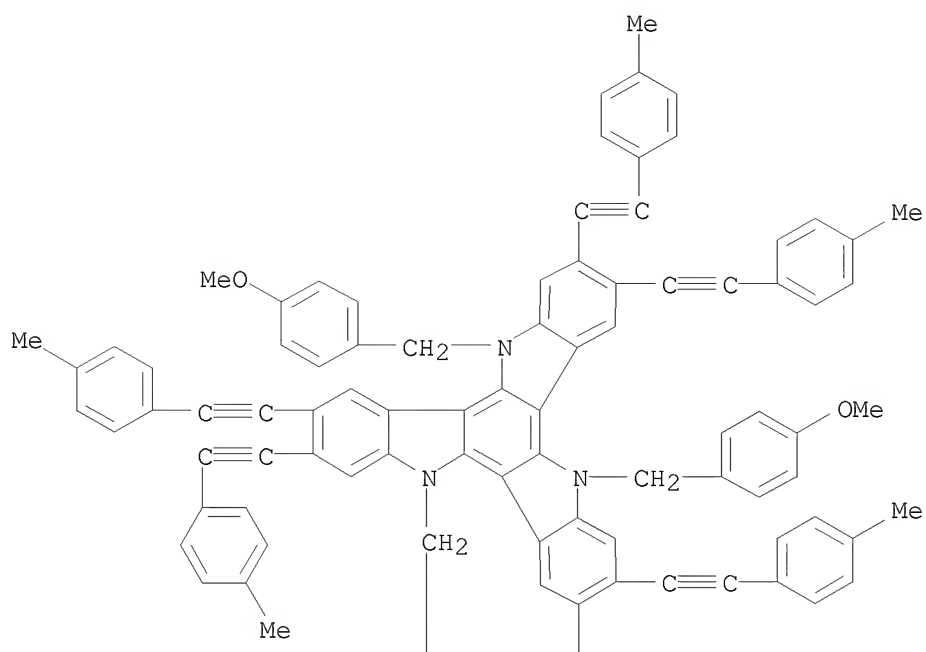


L3 ANSWER 19 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2006:1293087 CAPLUS  
 DOCUMENT NUMBER: 146:217110  
 TITLE: Electroactive C3 symmetric discotic liquid-crystalline  
 triindoles  
 AUTHOR(S): Gomez-Lor, Berta; Alonso, Beatriz; Omenat, Ana;  
 Serrano, Jose Luis  
 CORPORATE SOURCE: Instituto de Ciencias de Materiales de Madrid, CSIC,  
 Madrid, Cantoblanco, 28049, Spain

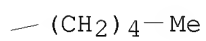
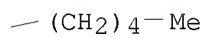
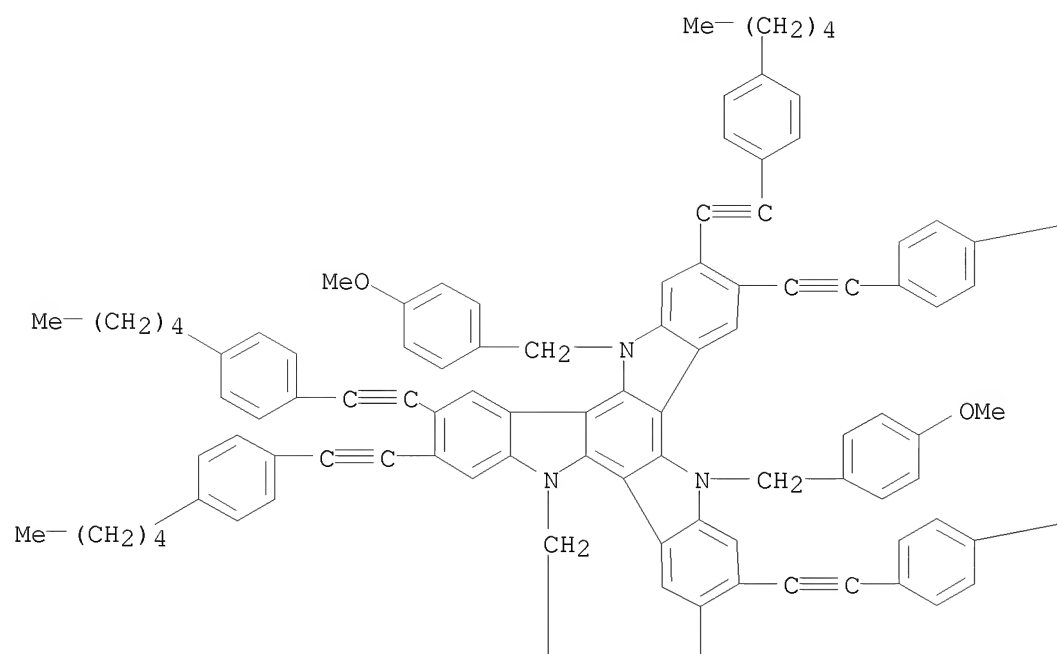
SOURCE: Chemical Communications (Cambridge, United Kingdom)  
 (2006), (48), 5012-5014  
 CODEN: CHCOFS; ISSN: 1359-7345  
 PUBLISHER: Royal Society of Chemistry  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 146:217110  
 IT 922719-59-3P  
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
 (a ppheprepn. and alkylation of)  
 RN 922719-59-3 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 2,3,7,8,12,13-hexa-1-decyn-1-yl-10,15-dihydro-5,10,15-tris[(4-  
 methoxyphenyl)methyl]- (CA INDEX NAME)



IT 922719-57-1P 922719-58-2P  
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and characterization of)  
 RN 922719-57-1 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 10,15-dihydro-5,10,15-tris[(4-methoxyphenyl)methyl]-2,3,7,8,12,13-  
 hexakis[2-(4-methylphenyl)ethynyl]- (CA INDEX NAME)



RN 922719-58-2 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 10,15-dihydro-5,10,15-tris[(4-methoxyphenyl)methyl]-2,3,7,8,12,13-  
 hexakis[2-(4-pentylphenyl)ethynyl]- (CA INDEX NAME)



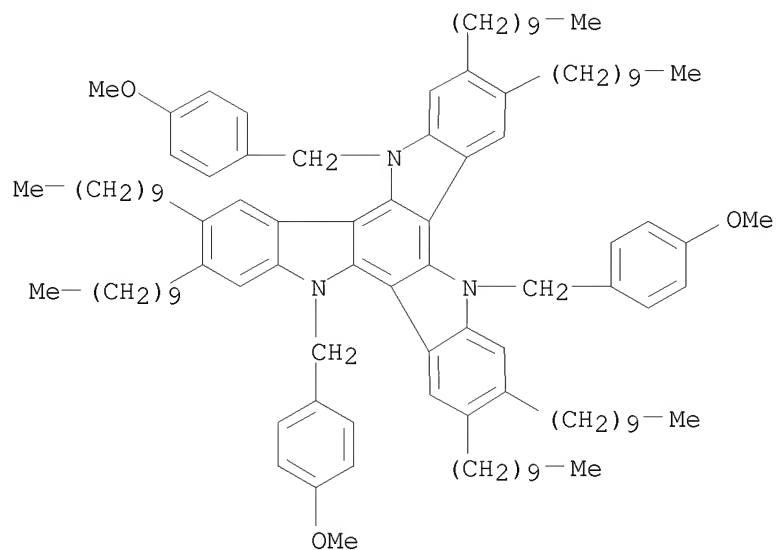


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C(=C(C=C172)Br)N(Cc173ccc(OC)cc173)C174=C(C=C2)C(=C(C=C174)Br)C(=C(C=C174)Br)N(Cc175ccc(OC)cc175)C176=C(C=C2)C(=C(C=C176)Br)C(=C(C=C176)Br)N(Cc177ccc(OC)cc177)C178=C(C=C2)C(=C(C=C178)Br)C(=C(C=C178)Br)N(Cc179ccc(OC)cc179)C180=C(C=C2)C(=C(C=C180)Br)C(=C(C=C180)Br)N(Cc181ccc(OC)cc181)C182=C(C=C2)C(=C(C=C182)Br)C(=C(C=C182)Br)N(Cc183ccc(OC)cc183)C184=C(C=C2)C(=C(C

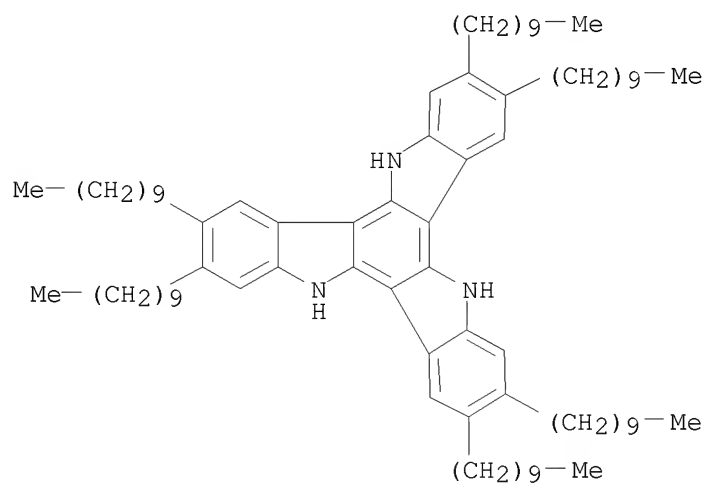
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IT      922719-60-6P 922719-61-7P
      RL: PEP (Physical, engineering or chemical process); PRP (Properties); SPN
      (Synthetic preparation); PREP (Preparation); PROC (Process)
      (preparation and liquid crystal properties of)
RN      922719-60-6  CAPLUS
CN      5H-Diindolo[3,2-a:3',2'-c]carbazole,
      2,3,7,8,12,13-hexakis(decyl)-10,15-dihydro-5,10,15-tris[(4-
      methoxyphenyl)methyl]- (CA INDEX NAME)

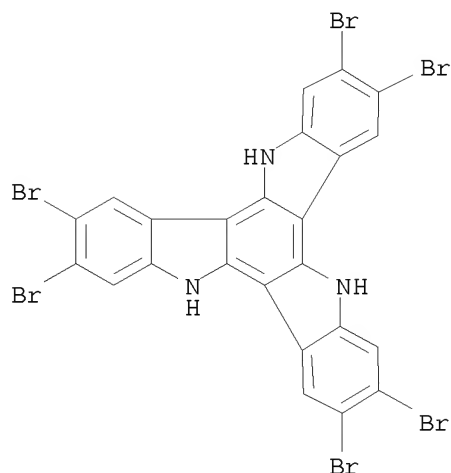
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RN 922719-61-7 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 2,3,7,8,12,13-hexakis(decyl)-10,15-dihydro- (CA INDEX NAME)

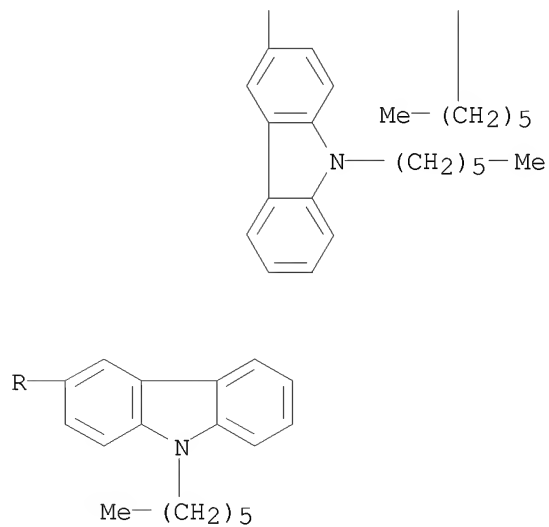
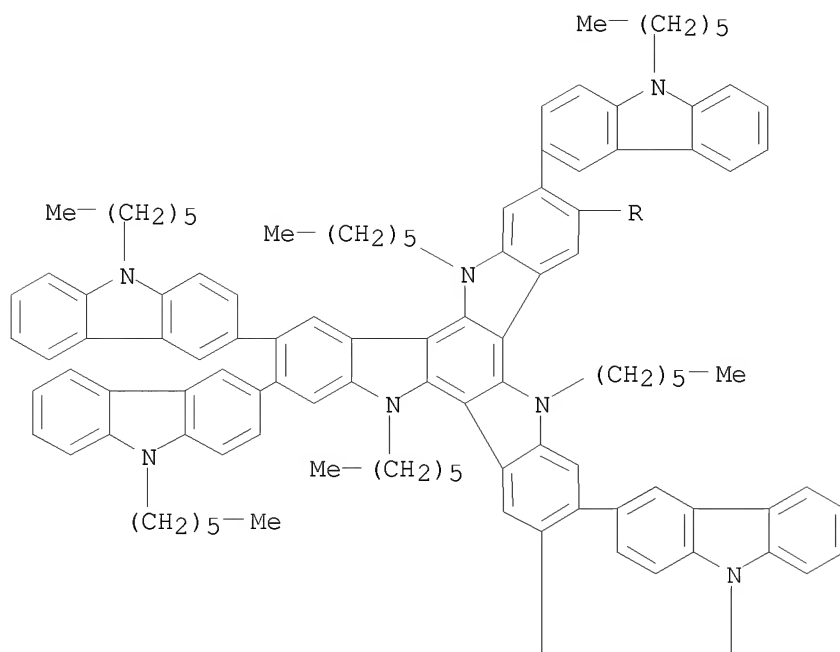


IT 307519-55-7  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (preparation of electroactive C3 sym. discotic liquid-crystalline  
 triindoles)  
 RN 307519-55-7 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 2,3,7,8,12,13-hexabromo-10,15-dihydro- (CA INDEX NAME)

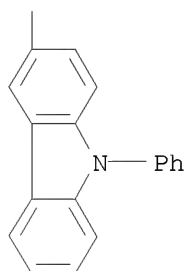
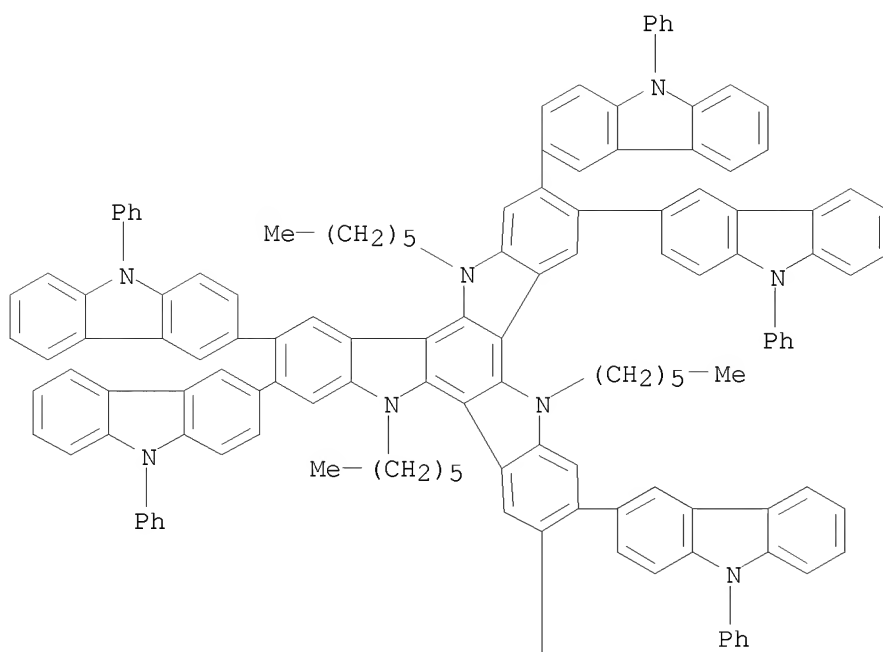


REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

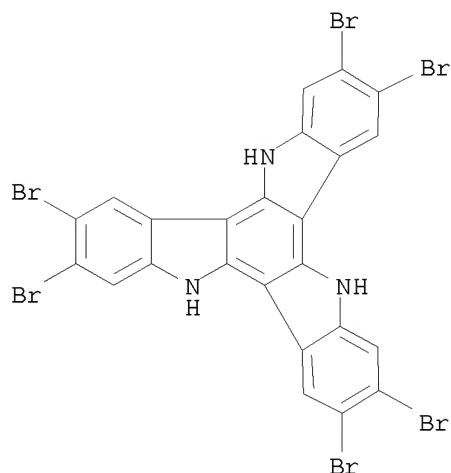
L3 ANSWER 20 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2006:874225 CAPLUS  
 DOCUMENT NUMBER: 145:454991  
 TITLE: Synthesis of novel star-shaped carbazole-functionalized triazatruxenes  
 AUTHOR(S): Feng, Guo-Liang; Lai, Wen-Yong; Ji, Shun-Jun; Huang, Wei  
 CORPORATE SOURCE: Key Laboratory of Organic Synthesis of Jiangsu Province, College of Chemistry and Chemical Engineering, Suzhou Industrial Park, Soochow University, Suzhou, 215123, Peop. Rep. China  
 SOURCE: Tetrahedron Letters (2006), 47(39), 7089-7092  
 CODEN: TELEAY; ISSN: 0040-4039  
 PUBLISHER: Elsevier Ltd.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 145:454991  
 IT 913473-32-2P 913473-33-3P  
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
 (synthesis of novel star-shaped carbazole-functionalized triazatruxenes)  
 RN 913473-32-2 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 5,10,15-trihexyl-10,15-dihydro-2,3,7,8,12,13-hexakis(9-hexyl-9H-carbazol-3-yl)- (9CI) (CA INDEX NAME)



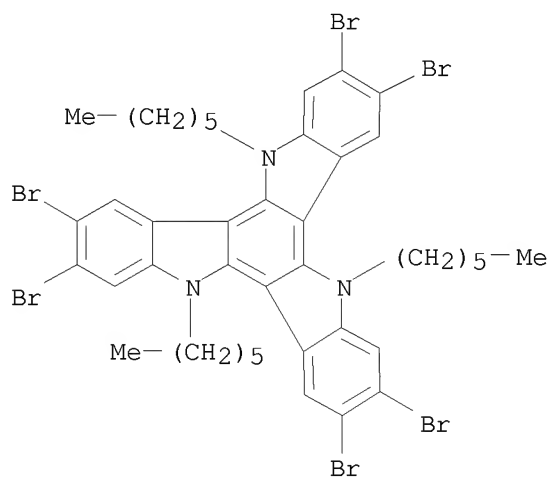
RN 913473-33-3 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 5,10,15-trihexyl-10,15-dihydro-2,3,7,8,12,13-hexakis(9-phenyl-9H-carbazol-  
 3-yl)- (9CI) (CA INDEX NAME)



IT 307519-55-7  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (synthesis of novel star-shaped carbazole-functionalized  
 triazatruxenes)  
 RN 307519-55-7 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 2,3,7,8,12,13-hexabromo-10,15-dihydro- (CA INDEX NAME)



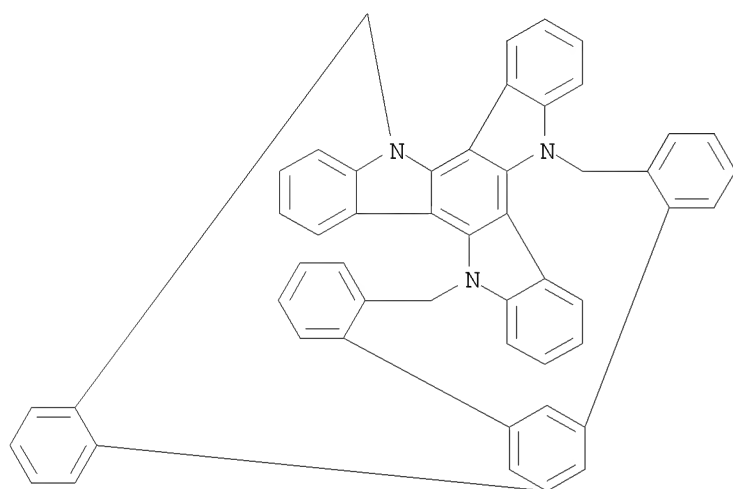
IT 894357-86-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (synthesis of novel star-shaped carbazole-functionalized  
 triazatruxenes)  
 RN 894357-86-9 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 2,3,7,8,12,13-hexabromo-5,10,15-trihexyl-10,15-dihydro- (CA INDEX NAME)



REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 21 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2006:720079 CAPLUS  
 DOCUMENT NUMBER: 145:314969  
 TITLE: A redox-active C3-symmetric triindole-based  
 triazacyclophane  
 AUTHOR(S): Gomez-Lor, Berta; Hennrich, Gunther; Alonso, Beatriz;  
 Monge, Angeles; Gutierrez-Puebla, Enrique; Echavarren,  
 Antonio M.  
 CORPORATE SOURCE: Instituto de Ciencia de Materiales de Madrid, Madrid,  
 20849, Spain

SOURCE: Angewandte Chemie, International Edition (2006),  
 45(27), 4491-4494  
 CODEN: ACIEF5; ISSN: 1433-7851  
 PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 145:314969  
 IT 909416-21-3P 909416-24-6P  
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and structure of a redox-active C3-sym. triindole-based  
 triazacyclopentane)  
 RN 909416-21-3 CAPLUS  
 CN 12H,26H-19,5-([1,2]Benzenomethano)-17,21-metheno-6,11,32-  
 methynotribenzo[6,7:10,11:17,18][1,8]diazacyclononadecino[1,2-a:4,3-  
 b']diindole (9CI) (CA INDEX NAME)

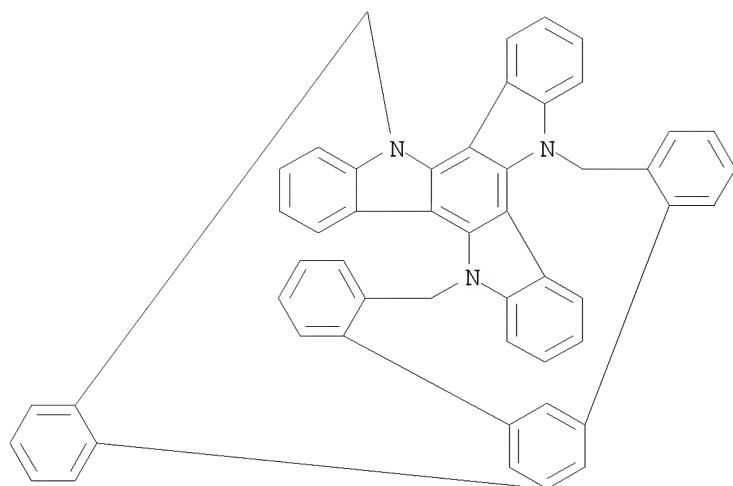


RN 909416-24-6 CAPLUS  
 CN 12H,26H-19,5-([1,2]Benzenomethano)-17,21-metheno-6,11,32-  
 methynotribenzo[6,7:10,11:17,18][1,8]diazacyclononadecino[1,2-a:4,3-  
 b']diindole, radical ion(1+), salt with trifluoroacetic acid, compd. with  
 12H,26H-19,5-([1,2]Benzenomethano)-17,21-metheno-6,11,32-  
 methynotribenzo[6,7:10,11:17,18][1,8]diazacyclononadecino[1,2-a:4,3-  
 b']diindole (1:1:1), mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 909416-21-3

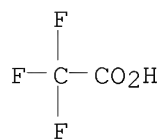
CMF C51 H33 N3



CM 2

CRN 76-05-1

CMF C2 H F3 O2



CM 3

CRN 909416-23-5

CMF C51 H33 N3 . C2 F3 O2

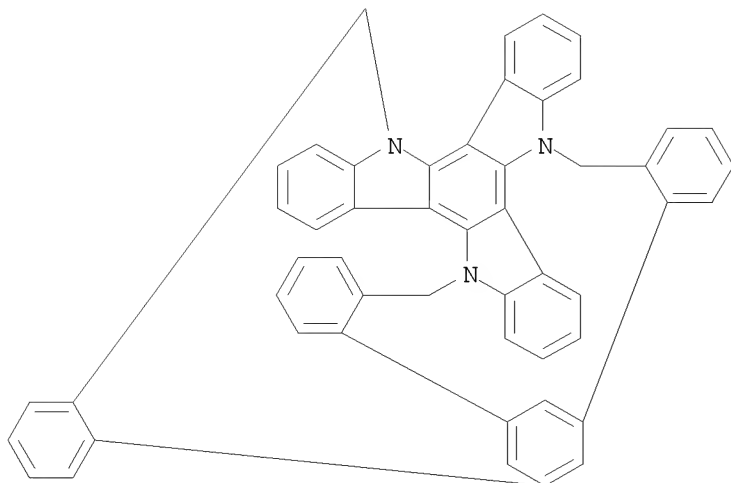
CM 4

CRN 909416-22-4

CMF C51 H33 N3

CCI RIS

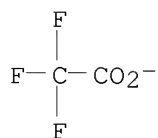




CM 5

CRN 14477-72-6

CMF C2 F3 O2



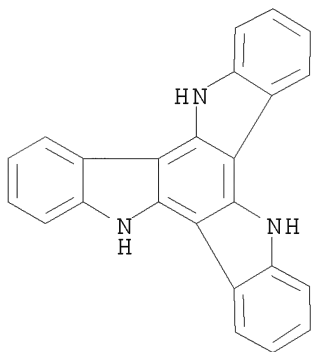
IT 109005-10-9, 10,15-Dihydro-5H-5,10,15-triazaindeno[1,2-a;1',2'-c]fluorene

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation and structure of a redox-active C3-sym. triindole-based triazacyclopentadiene)

RN 109005-10-9 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro- (CA INDEX NAME)



REFERENCE COUNT:

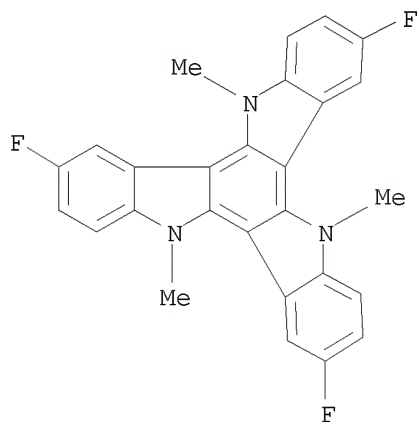
42

THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

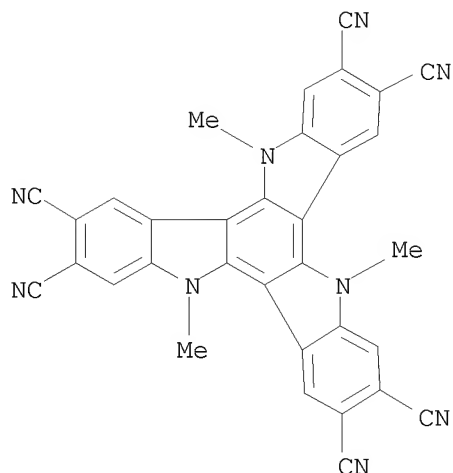
ACCESSION NUMBER: 2006:493706 CAPLUS  
 DOCUMENT NUMBER: 144:498402  
 TITLE: Organic carrier transport material for organic electroluminescent display showing extended service life and improved light efficiency  
 INVENTOR(S): Onishima, Yasunori; Matsunami, Shigeyuki  
 PATENT ASSIGNEE(S): Sony Corp., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 42 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006135146	A	20060525	JP 2004-323435	20041108

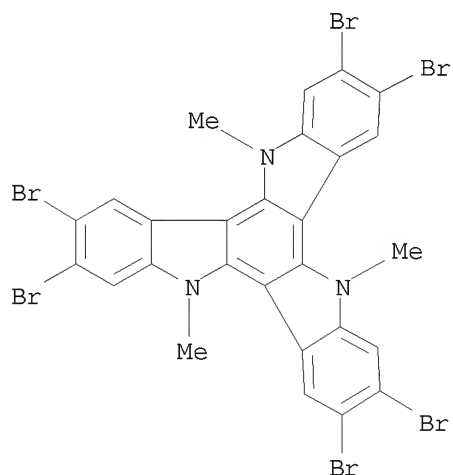
PRIORITY APPLN. INFO.: JP 2004-323435 20041108  
 OTHER SOURCE(S): MARPAT 144:498402  
 IT 887402-47-3P 887402-49-5P  
 RL: DEV (Device component use); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (preparation of organic carrier transport material for organic electroluminescent display showing extended service life and improved light efficiency)  
 RN 887402-47-3 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 3,8,13-trifluoro-10,15-dihydro-5,10,15-trimethyl- (9CI) (CA INDEX NAME)



RN 887402-49-5 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole-2,3,7,8,12,13-hexacarbonitrile, 10,15-dihydro-5,10,15-trimethyl- (CA INDEX NAME)



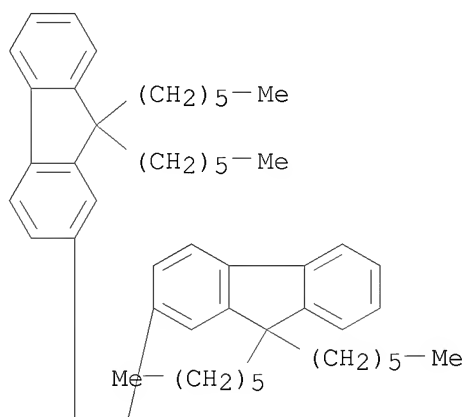
IT 887402-41-7P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (preparation of organic carrier transport material for organic  
 electroluminescent  
 display showing extended service life and improved light efficiency)  
 RN 887402-41-7 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 2,3,7,8,12,13-hexabromo-10,15-dihydro-5,10,15-trimethyl- (9CI) (CA INDEX  
 NAME)

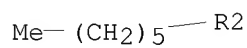
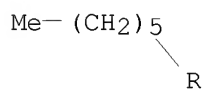
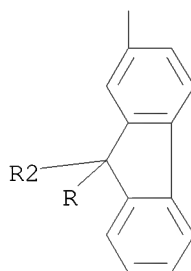
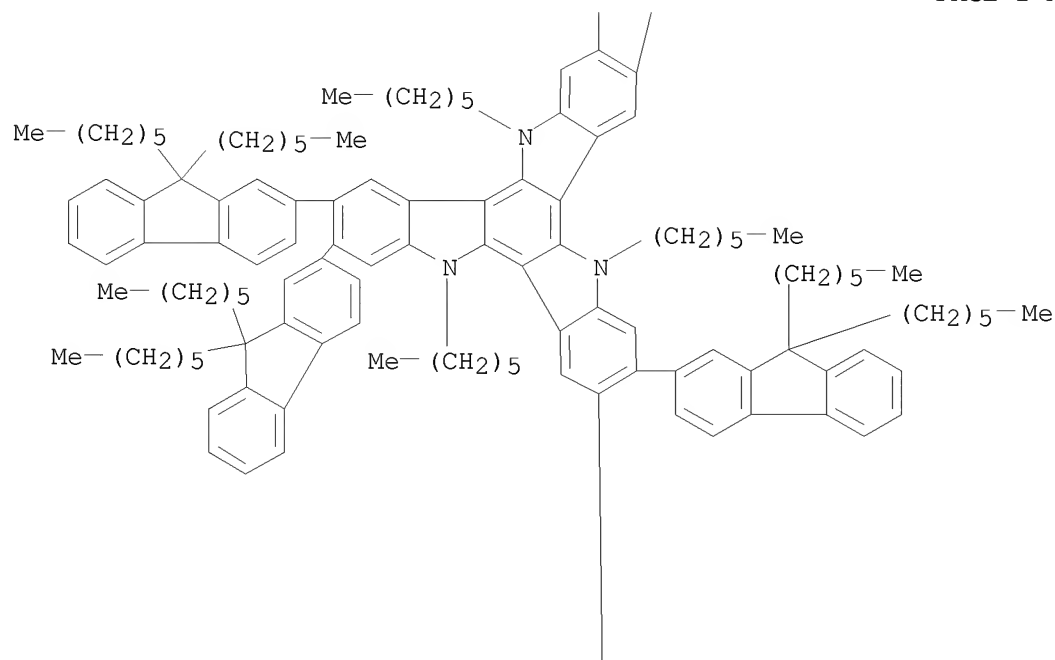


L3 ANSWER 23 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2006:376355 CAPLUS  
 DOCUMENT NUMBER: 145:92446  
 TITLE: Monodisperse six-armed triazatruxenes:  
 Microwave-enhanced synthesis and highly efficient  
 pure-deep-blue electroluminescence  
 AUTHOR(S): Lai, Wen-Yong; Zhu, Rui; Fan, Qu-Li; Hou, Lin-Tao;  
 Cao, Yong; Huang, Wei  
 CORPORATE SOURCE: Institute of Advanced Materials (IAM), Fudan  
 University, Shanghai, 200433, Peop. Rep. China

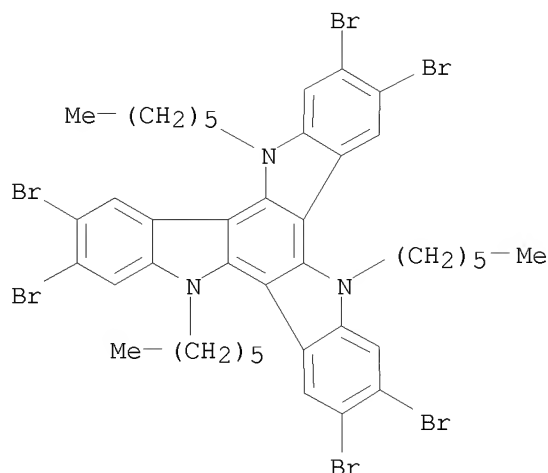
SOURCE: Macromolecules (2006), 39(11), 3707-3709  
 CODEN: MAMOBX; ISSN: 0024-9297  
 PUBLISHER: American Chemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 IT 957896-81-0P  
 RL: DEV (Device component use); PNU (Preparation, unclassified); PRP  
 (Properties); PREP (Preparation); USES (Uses)  
 (monodisperse six-armed triazatruxenes: microwave-enhanced synthesis  
 and highly efficient pure-deep-blue electroluminescence)  
 RN 957896-81-0 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 2,3,7,8,12,13-hexakis(9,9-dihexyl-9H-fluoren-2-yl)-5,10,15-trihexyl-10,15-  
 dihydro- (CA INDEX NAME)

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IT 894357-86-9  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (monodisperse six-armed triazatruxenes: microwave-enhanced synthesis  
 and highly efficient pure-deep-blue electroluminescence)  
 RN 894357-86-9 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 2,3,7,8,12,13-hexabromo-5,10,15-trihexyl-10,15-dihydro- (CA INDEX NAME)



REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

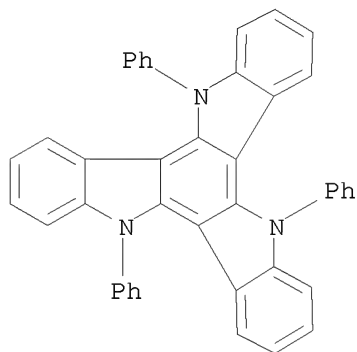
L3 ANSWER 24 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2006:269996 CAPLUS  
 DOCUMENT NUMBER: 144:321181  
 TITLE: Carbazole and indoline derivatives and organic light emitting device using same  
 INVENTOR(S): Kim, Kong Kyeom; Jang, Jun Gi  
 PATENT ASSIGNEE(S): LG Chem, Ltd., S. Korea  
 SOURCE: U.S. Pat. Appl. Publ., 21 pp.  
 CODEN: USXXCO  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20060063037	A1	20060323	US 2005-229093	20050919
US 7452615	B2	20081118		
WO 2006033538	A1	20060330	WO 2005-KR3077	20050915
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
EP 1805280	A1	20070711	EP 2005-808804	20050915
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 101023148	A	20070822	CN 2005-80031464	20050915
JP 2008513441	T	20080501	JP 2007-532243	20050915
KR 2006051418	A	20060519	KR 2005-87219	20050920
IN 2007DN02032	A	20070817	IN 2007-DN2032	20070315
PRIORITY APPLN. INFO.:			KR 2004-74920	A 20040920

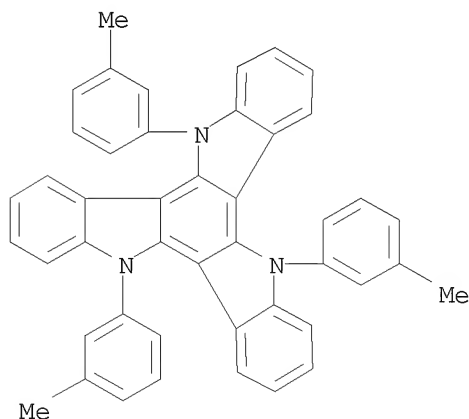
OTHER SOURCE(S): MARPAT 144:321181

IT 879713-04-9P 879713-05-0P 879713-06-1P  
879713-07-2PRL: DEV (Device component use); SPN (Synthetic preparation); PREP  
(Preparation); USES (Uses)(carbazole and indoline derivs. and organic light-emitting devices using  
them)

RN 879713-04-9 CAPLUS

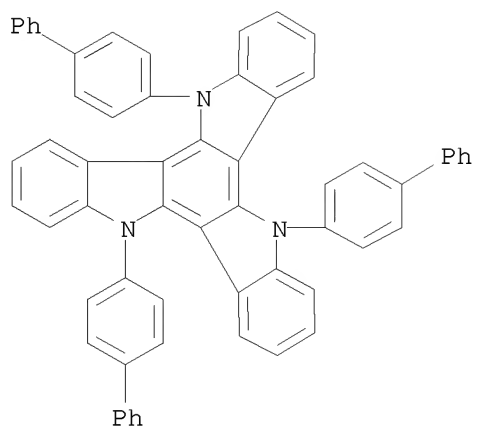
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro-5,10,15-triphenyl-  
(9CI) (CA INDEX NAME)

RN 879713-05-0 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
10,15-dihydro-5,10,15-tris(3-methylphenyl)- (9CI) (CA INDEX NAME)

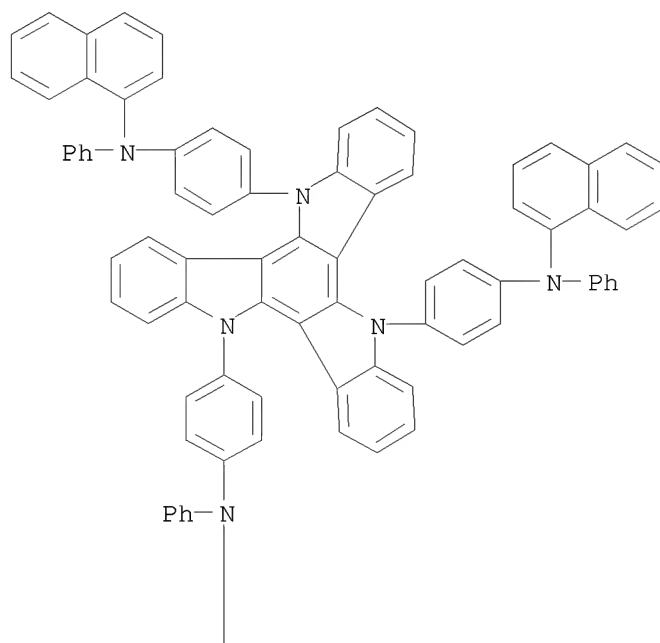
RN 879713-06-1 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
5,10,15-tris([1,1'-biphenyl]-4-yl)-10,15-dihydro- (9CI) (CA INDEX NAME)

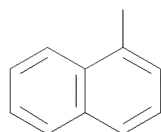


RN 879713-07-2 CAPLUS  
 CN 1-Naphthalenamine, N,N',N''-(5H-diindolo[3,2-a:3',2'-c]carbazole-5,10,15-triyltri-4,1-phenylene)tris[N-phenyl- (9CI) (CA INDEX NAME)

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IT 109005-10-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

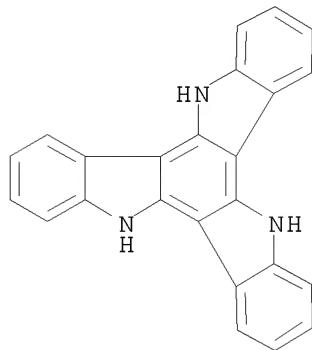


(Reactant or reagent)

(carbazole and indoline derivs. and organic light-emitting devices using them)

RN 109005-10-9 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro- (CA INDEX NAME)



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 25 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:1082741 CAPLUS

DOCUMENT NUMBER: 144:157260

TITLE: Theoretical study of tetrahedral type (Td)C36N4 molecule

AUTHOR(S): Sun, Kuang Chung; Sun, Kuang Ming

CORPORATE SOURCE: Department of Chemical Engineering, Lee-Ming Institute of Technology, Taipei, Taiwan

SOURCE: Huaxue (2005), 63(2), 315-328  
CODEN: HUHA2; ISSN: 0441-3768

PUBLISHER: Chongkuo Hua Hsieh Hui

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

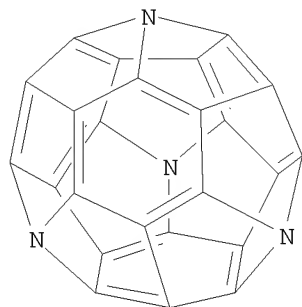
IT 149333-56-2

RL: PRP (Properties)

(geometry, electronic structure, and phys. properties of tetrahedral type (Td)C36N4 mol. studied by DFT, HF, and PM3 calcns.)

RN 149333-56-2 CAPLUS

CN 7,11,15,28-Tetraaza[5,6]fullerene-C28-Td (9CI) (CA INDEX NAME)



L3 ANSWER 26 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:902899 CAPLUS

DOCUMENT NUMBER: 143:229827  
 TITLE: Preparation of substituted sym-triindole derivatives by cyclocondensation reaction of substituted oxindole derivatives using phosphorus oxychloride  
 INVENTOR(S): Hiyoshi, Hidetaka; Kumagai, Hironobu; Ooi, Hideo  
 PATENT ASSIGNEE(S): Ihara Chemical Industry Co., Ltd., Japan  
 SOURCE: PCT Int. Appl., 66 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005077956	A1	20050825	WO 2005-JP2140	20050214
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1717239	A1	20061102	EP 2005-719087	20050214
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS			
CN 1934114	A	20070321	CN 2005-80008807	20050214
IN 2006CN02981	A	20070608	IN 2006-CN2981	20060814
US 20070191455	A1	20070816	US 2006-589534	20060815
KR 2006128009	A	20061213	KR 2006-718942	20060915
PRIORITY APPLN. INFO.:			JP 2004-38874	A 20040216
			WO 2005-JP2140	W 20050214

OTHER SOURCE(S): MARPAT 143:229827

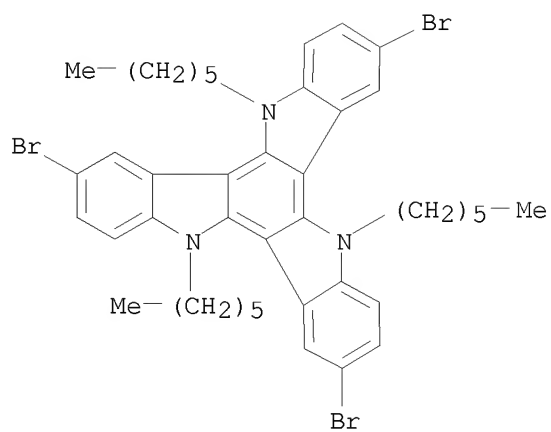
IT 862856-06-2P 862856-09-5P 862856-15-3P  
 862856-19-7P 862856-22-2P

RL: RCT (Reactant); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent);  
 USES (Uses)

(preparation of substituted sym-triindole derivs. as antistatic agents, chemical sensors, phototransistors, etc., by cyclocondensation reaction of substituted oxindole derivs. using phosphorus oxychloride)

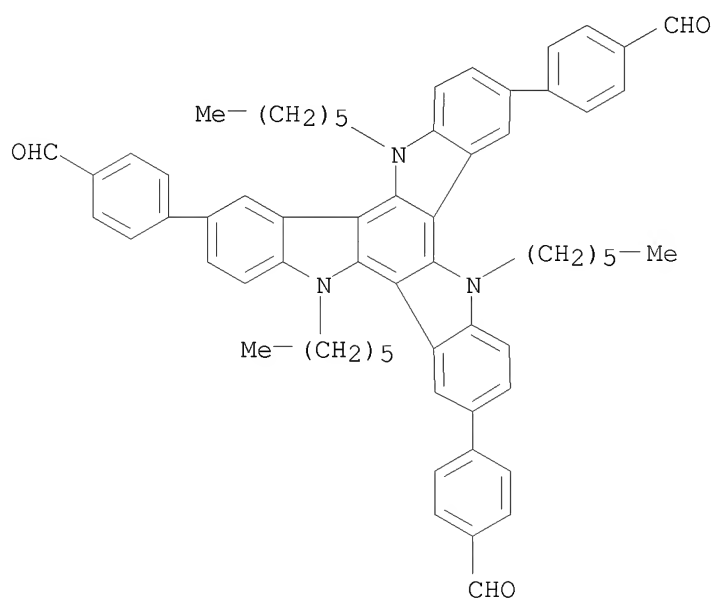
RN 862856-06-2 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 3,8,13-tribromo-5,10,15-trihexyl-10,15-dihydro- (CA INDEX NAME)



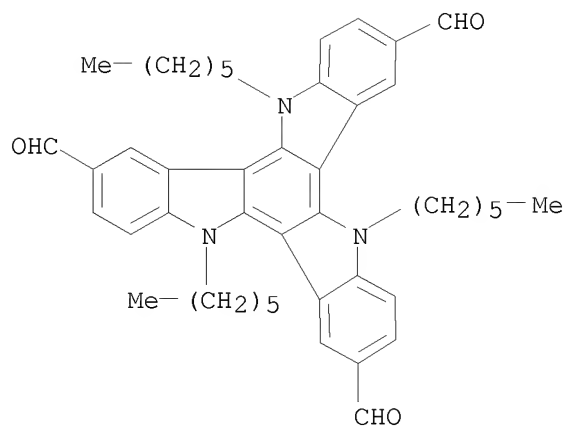
RN 862856-09-5 CAPLUS

CN Benzaldehyde, 4,4',4''-(5,10,15-trihexyl-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole-3,8,13-triyl)- (9CI) (CA INDEX NAME)



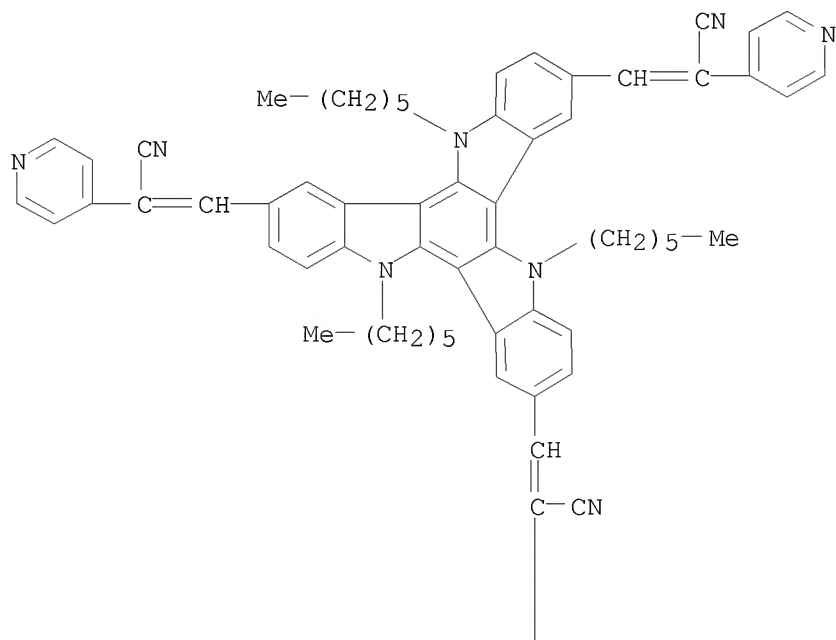
RN 862856-15-3 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole-3,8,13-tricarboxaldehyde, 5,10,15-trihexyl-10,15-dihydro- (CA INDEX NAME)

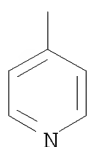


RN 862856-19-7 CAPLUS  
 CN 4-Pyridineacetonitrile,  $\alpha,\alpha',\alpha''$ -[(5,10,15-trihexyl-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole-3,8,13-triyl)trimethylidene]tris- (9CI) (CA INDEX NAME)

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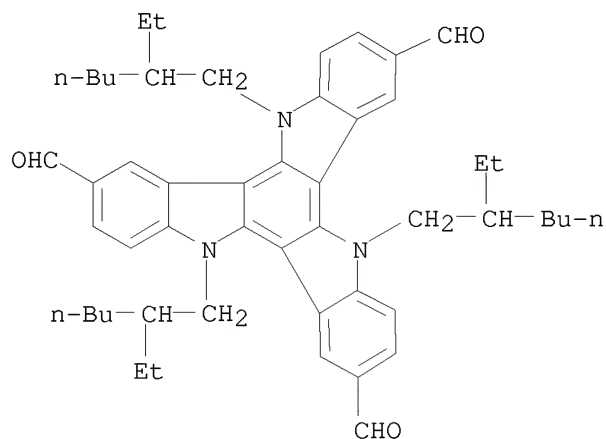


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RN 862856-22-2 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole-3,8,13-tricarboxaldehyde,  
5,10,15-tris(2-ethylhexyl)-10,15-dihydro- (CA INDEX NAME)



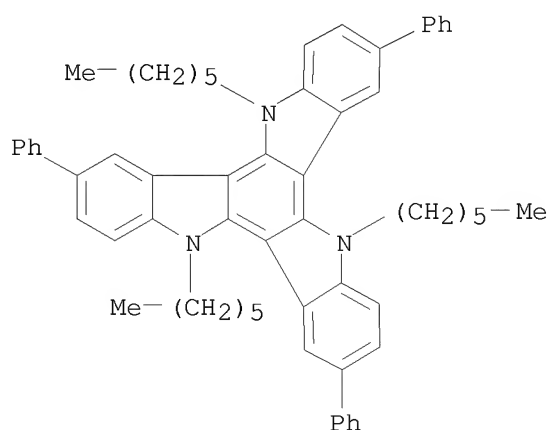
IT 862856-08-4P 862856-10-8P 862856-11-9P  
862856-12-0P 862856-13-1P 862856-16-4P  
862856-17-5P 862856-18-6P 862856-20-0P  
862856-23-3P 862856-24-4P 862856-25-5P  
862856-26-6P 862856-27-7P 862856-48-2P

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(preparation of substituted sym-triindole derivs. as antistatic agents, chemical sensors, phototransistors, etc., by cyclocondensation reaction of substituted oxindole derivs. using phosphorus oxychloride)

RN 862856-08-4 CAPLUS

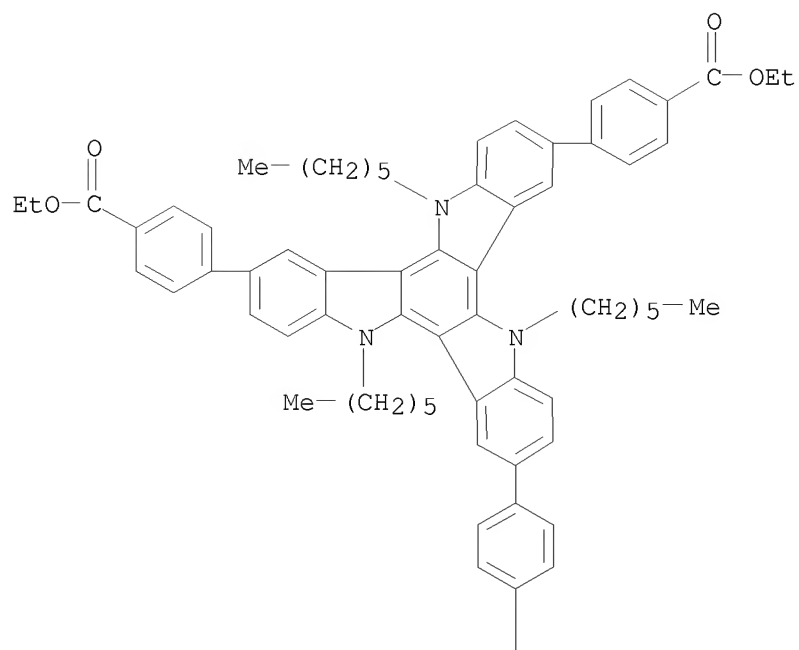
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
5,10,15-trihexyl-10,15-dihydro-3,8,13-triphenyl- (9CI) (CA INDEX NAME)



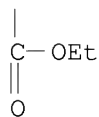
RN 862856-10-8 CAPLUS

CN Benzoic acid, 4,4',4''-(5,10,15-trihexyl-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole-3,8,13-triyl)-, triethyl ester (9CI) (CA INDEX NAME)

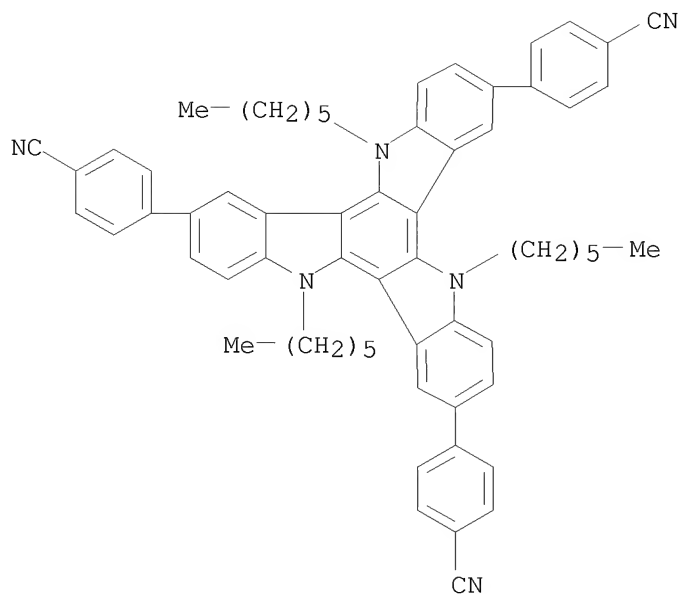
PAGE 1-A



PAGE 2-A

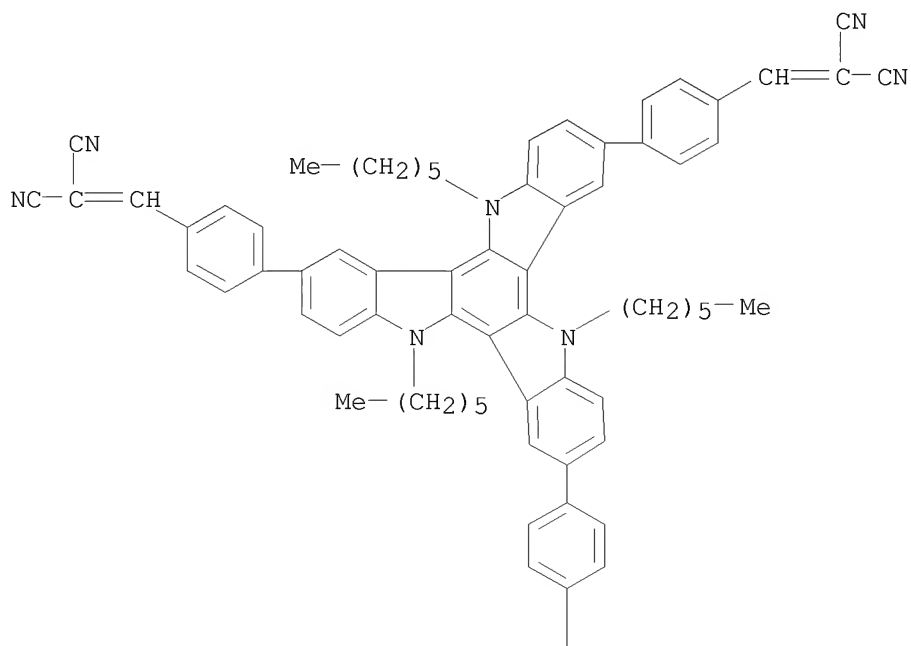


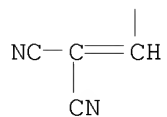
RN 862856-11-9 CAPLUS  
 CN Benzonitrile, 4,4',4''-(5,10,15-trihexyl-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole-3,8,13-triyl)- (9CI) (CA INDEX NAME)



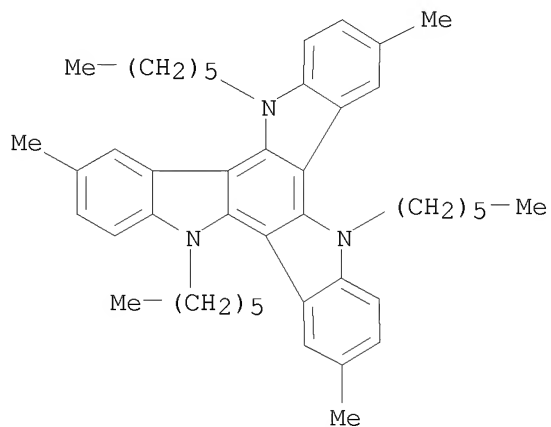
RN 862856-12-0 CAPLUS  
 CN Propanedinitrile, 2,2',2''-[(5,10,15-trihexyl-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole-3,8,13-triyl)tris(4,1-phenylenemethylidene)]tris- (9CI) (CA INDEX NAME)

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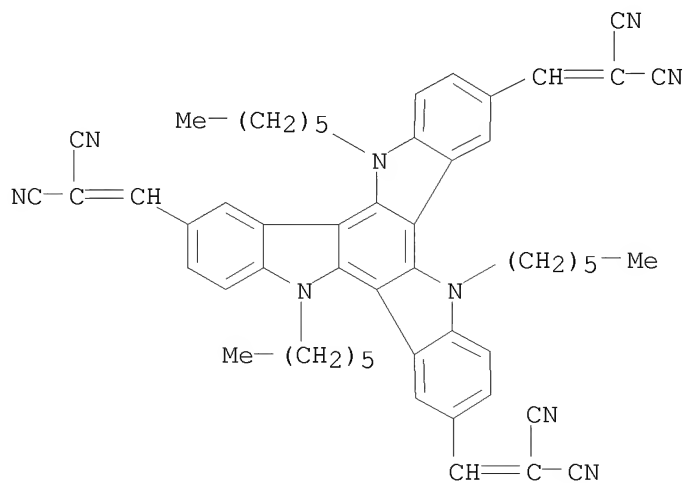




RN 862856-13-1 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 5,10,15-trihexyl-10,15-dihydro-3,8,13-trimethyl- (9CI) (CA INDEX NAME)

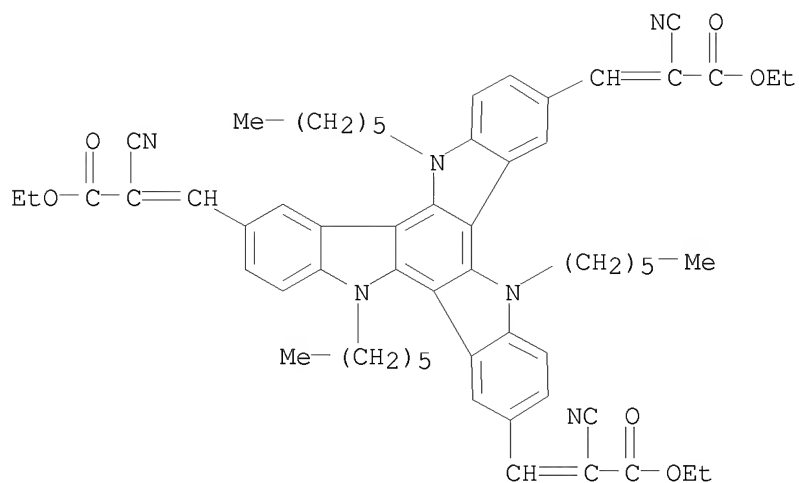


RN 862856-16-4 CAPLUS  
 CN Propanedinitrile, 2,2',2''-[(5,10,15-trihexyl-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole-3,8,13-triyl)trimethylidyne]tris- (CA INDEX NAME)



RN 862856-17-5 CAPLUS  
 CN 2-Propenoic acid, 3,3',3''-(5,10,15-trihexyl-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole-3,8,13-triyl)tris[2-cyano-, triethyl ester (9CI) (CA INDEX NAME)

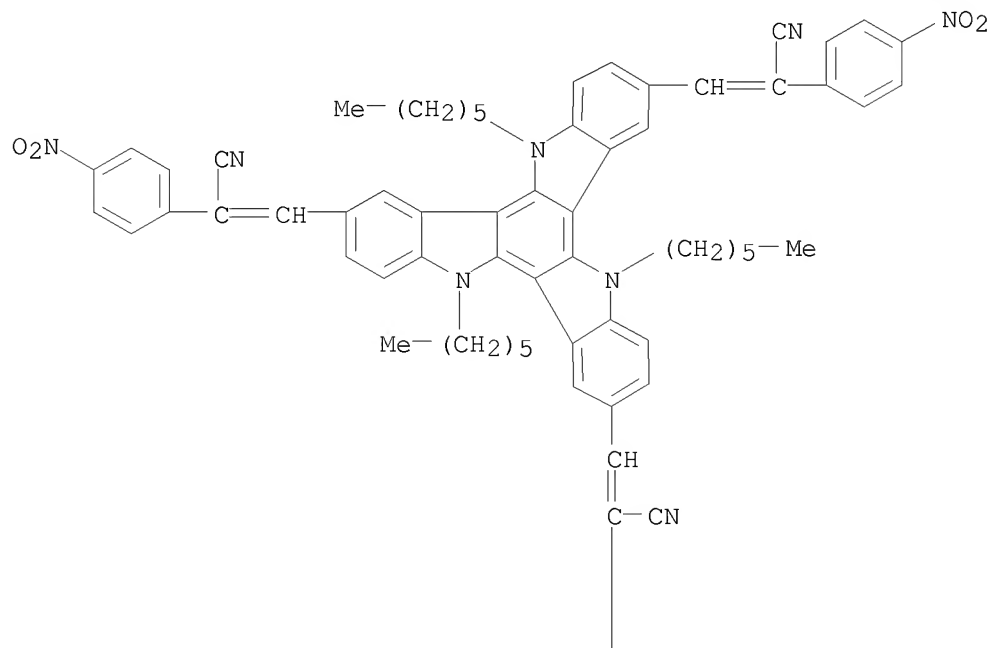


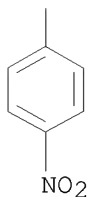


RN 862856-18-6 CAPLUS

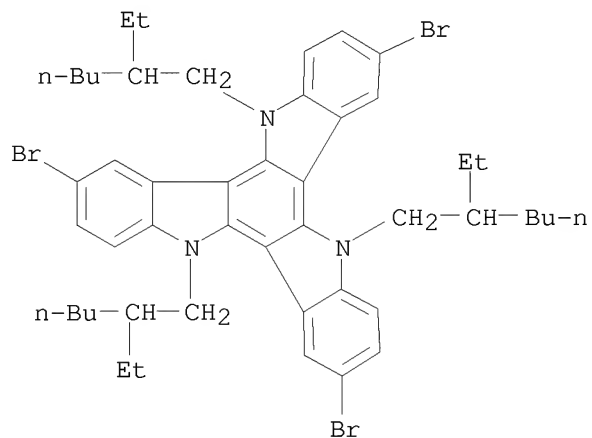
CN Benzeneacetonitrile,  $\alpha,\alpha',\alpha''$ -[(5,10,15-trihexyl-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole-3,8,13-triyl)trimethylidyne]tris[4-nitro- (9CI) (CA INDEX NAME)

PAGE 1-A

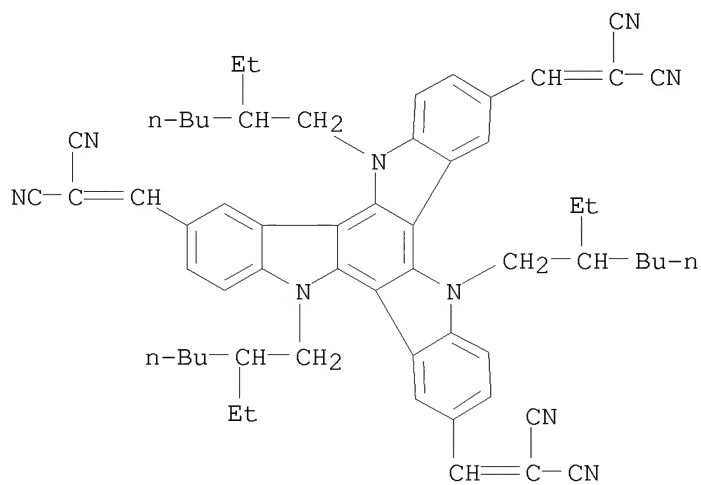




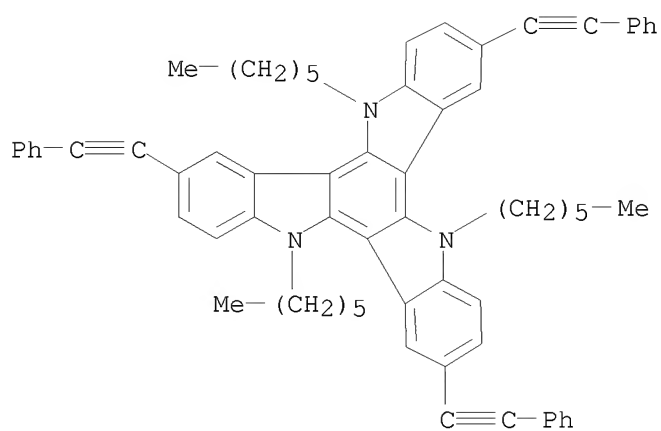
RN 862856-20-0 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 3,8,13-tribromo-5,10,15-tris(2-ethylhexyl)-10,15-dihydro- (CA INDEX NAME)



RN 862856-23-3 CAPLUS  
 CN Propanedinitrile, 2,2',2''-[5,10,15-tris(2-ethylhexyl)-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole-3,8,13-triyl]trimethyldiynyltris- (9CI)  
 (CA INDEX NAME)

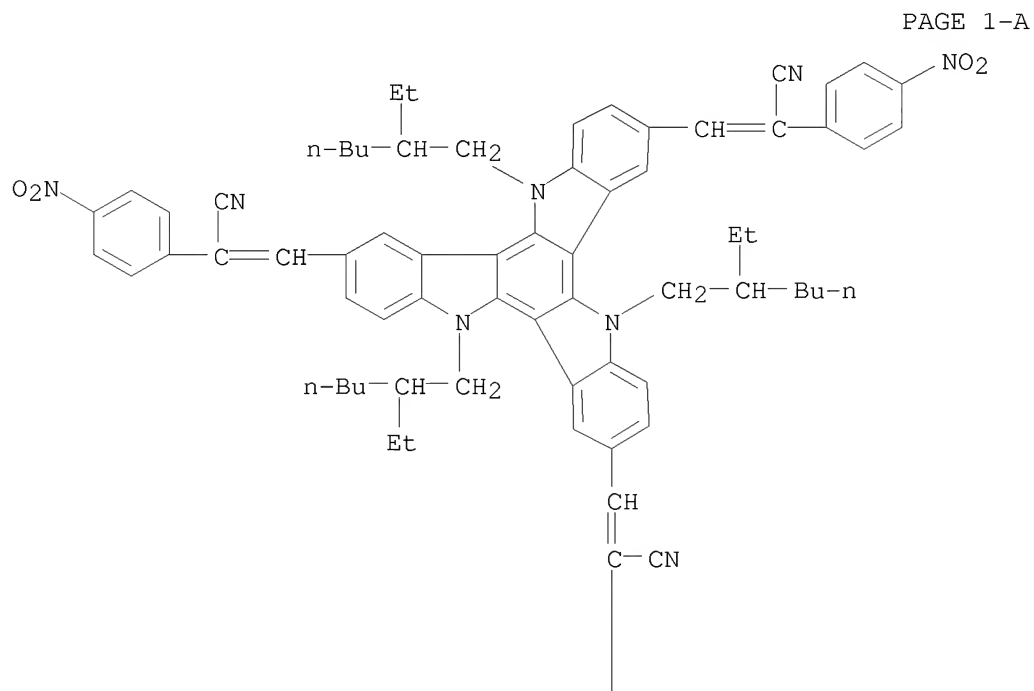


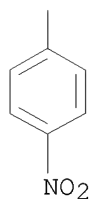
RN 862856-24-4 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 5,10,15-trihexyl-10,15-dihydro-3,8,13-tris(phenylethynyl)- (9CI) (CA  
 INDEX NAME)



RN 862856-25-5 CAPLUS

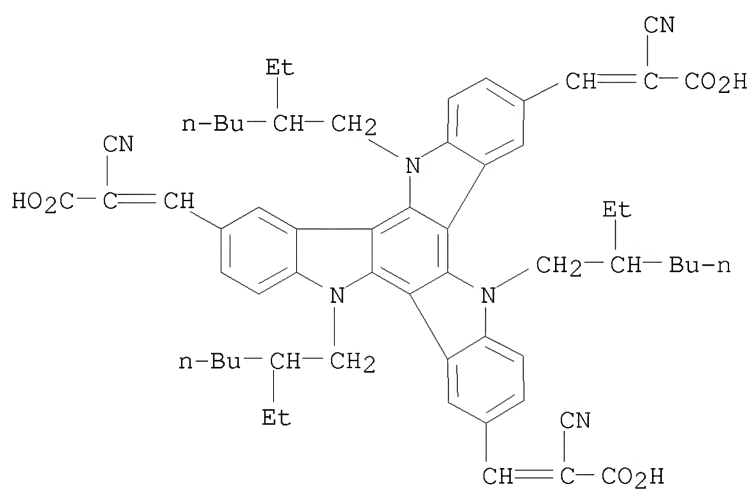
CN Benzeneacetonitrile,  $\alpha, \alpha', \alpha''$ -[[5,10,15-tris(2-ethylhexyl)-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole-3,8,13-triyl]trimethyldiynes]tris[4-nitro- (9CI) (CA INDEX NAME)





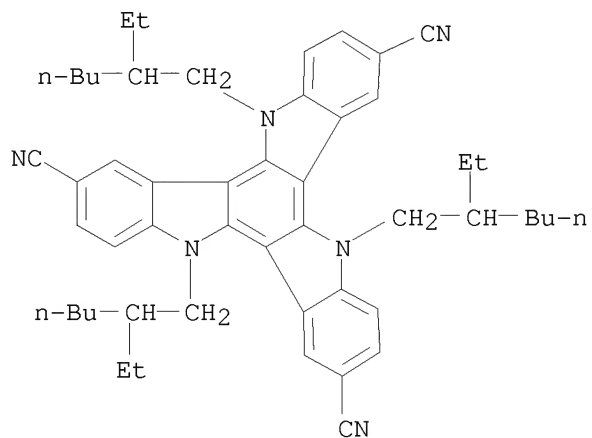
RN 862856-26-6 CAPLUS

CN 2-Propenoic acid, 3,3',3''-[5,10,15-tris(2-ethylhexyl)-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole-3,8,13-triyl]tris[2-cyano- (CA INDEX NAME)



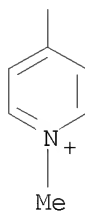
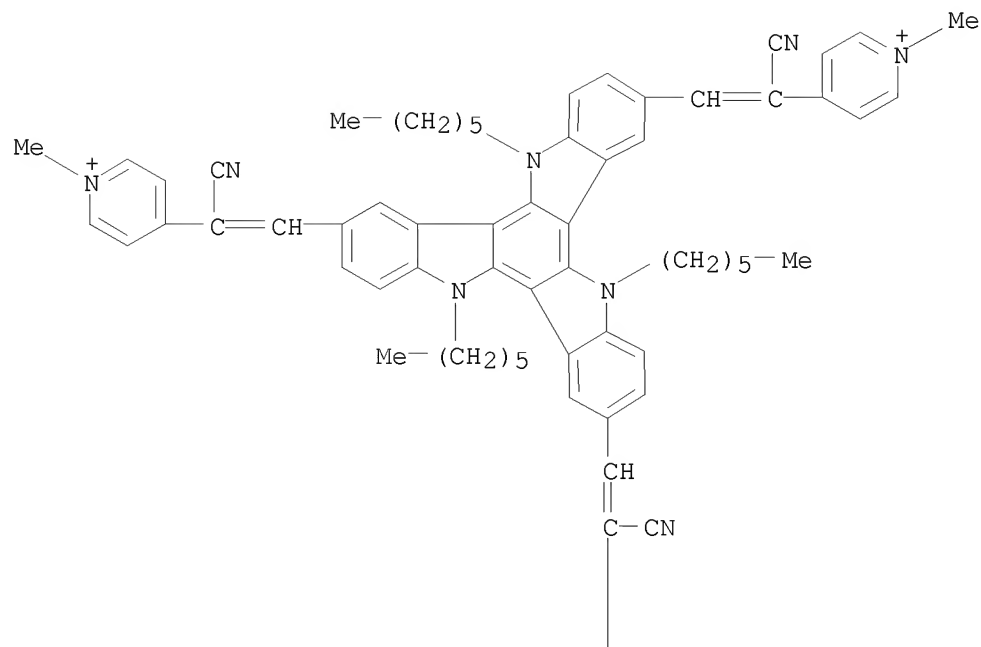
RN 862856-27-7 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole-3,8,13-tricarbonitrile, 5,10,15-tris(2-ethylhexyl)-10,15-dihydro- (CA INDEX NAME)



RN 862856-48-2 CAPLUS

CN Pyridinium, 4,4',4''-[(5,10,15-trihexyl-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole-3,8,13-triyl)tris(1-cyano-2,1-ethenediyl)]tris[1-methyl-, triiodide (9CI) (CA INDEX NAME)



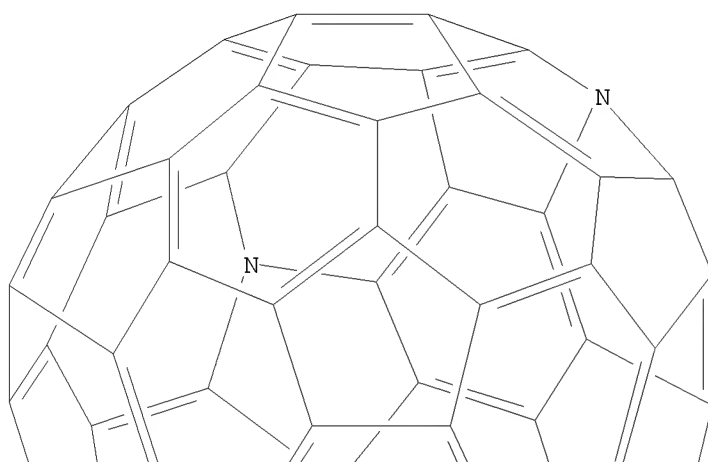
● 3 I<sup>-</sup>

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

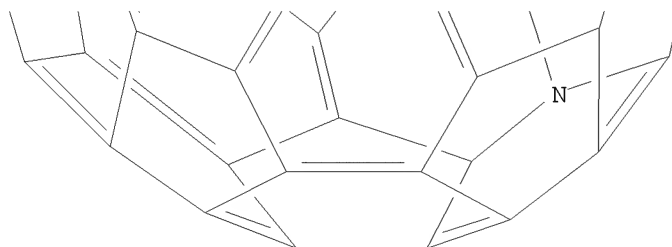
L3 ANSWER 27 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2005:824115 CAPLUS  
 DOCUMENT NUMBER: 144:135867  
 TITLE: Structures and stabilities of hydroazafullerenes  
 C60-n(NH)n (n = 2-3)  
 AUTHOR(S): Liang, Yunxiao; Shang, Zhenfeng; Xu, Xiufang; Zhao, Xuezhuan  
 CORPORATE SOURCE: Department of Chemistry, Ningbo University, Ningbo, 315211, Peop. Rep. China  
 SOURCE: THEOCHEM (2005), 728(1-3), 225-229  
 CODEN: THEODJ; ISSN: 0166-1280  
 PUBLISHER: Elsevier B.V.  
 DOCUMENT TYPE: Journal

LANGUAGE: English  
IT 873531-55-6  
RL: PRP (Properties)  
(structures and stabilities of isomers of hydroazafullerenes C<sub>58</sub>(NH)<sub>2</sub>  
and C<sub>57</sub>(NH)<sub>3</sub> from AM1 and B3LYP-DFT calcns.)  
RN 873531-55-6 CAPLUS  
CN 9H-1,16,30-Triaza[5,6]fullerene-C60-Ih, 17,31-dihydro- (9CI) (CA INDEX  
NAME)

PAGE 1-A



PAGE 2-A

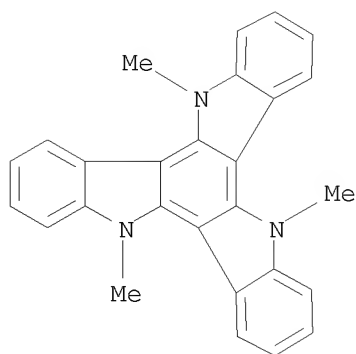


REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 28 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN  
ACCESSION NUMBER: 2005:15771 CAPLUS  
DOCUMENT NUMBER: 142:97499  
TITLE: Hydrogen storage by reversible hydrogenation of  
pi-conjugated substrates  
INVENTOR(S): Pez, Guido Peter; Scott, Aaron Raymond; Cooper, Alan  
Charles; Cheng, Hansong  
PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 58 pp., Cont.-in-part of U.S. Ser. No. 430,246.  
 CODEN: USXXCO  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 5  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20050002857	A1	20050106	US 2004-833484	20040427
US 7429372	B2	20080930		
US 20040223907	A1	20041111	US 2003-430246	20030506
US 7101530	B2	20060905		
CA 2465555	A1	20041106	CA 2004-2465555	20040429
CA 2524846	A1	20050106	CA 2004-2524846	20040506
WO 2005000457	A2	20050106	WO 2004-US14034	20040506
WO 2005000457	A3	20050707		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1660404	A2	20060531	EP 2004-751428	20040506
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
CN 1809505	A	20060726	CN 2004-80017488	20040506
CN 100381351	C	20080416		
JP 2007515363	T	20070614	JP 2006-532795	20040506
CN 101279222	A	20081008	CN 2008-10086436	20040506
MX 2005PA11850	A	20060525	MX 2005-PA11850	20051104
US 7351395	B1	20080401	US 2005-266803	20051104
KR 2006022651	A	20060310	KR 2005-721146	20051107
PRIORITY APPLN. INFO.:				
			US 2003-430246	A2 20030506
			US 2004-833467	A 20040427
			US 2004-833484	A 20040427
			CN 2004-80017488	A3 20040506
			WO 2004-US14034	W 20040506
IT 75833-66-8				
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)				
(hydrogen storage by reversible hydrogenation of pi-conjugated substrates)				
RN 75833-66-8	CAPLUS			
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro-5,10,15-trimethyl-				(CA INDEX NAME)



REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 29 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:14287 CAPLUS

DOCUMENT NUMBER: 142:117630

TITLE: Hydrogen storage reversible hydrogenated pi-conjugated substrates

INVENTOR(S): Pez, Guido Peter; Scott, Aaron Raymond; Cooper, Alan Charles; Cheng, Hansong; Bagzis, Larry David; Appleby, John Bruce

PATENT ASSIGNEE(S): Air Products and Chemicals, Inc., USA

SOURCE: PCT Int. Appl., 133 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 5

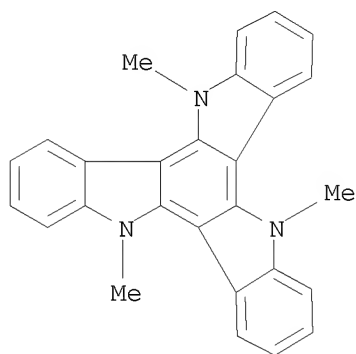
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005000457	A2	20050106	WO 2004-US14034	20040506
WO 2005000457	A3	20050707		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
US 20040223907	A1	20041111	US 2003-430246	20030506
US 7101530	B2	20060905		
US 20050002857	A1	20050106	US 2004-833484	20040427
US 7429372	B2	20080930		
US 20050013767	A1	20050120	US 2004-833467	20040427
CA 2524846	A1	20050106	CA 2004-2524846	20040506
EP 1660404	A2	20060531	EP 2004-751428	20040506
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK			
CN 1809505	A	20060726	CN 2004-80017488	20040506
CN 100381351	C	20080416		
JP 2007515363	T	20070614	JP 2006-532795	20040506



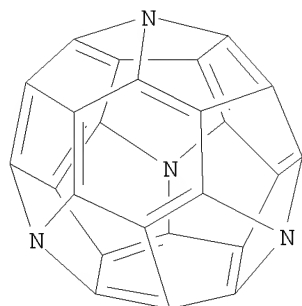
MX 2005PA11850	A	20060525	MX 2005-PA11850	20051104
KR 2006022651	A	20060310	KR 2005-721146	20051107
PRIORITY APPLN. INFO.:			US 2003-430246	A 20030506
			US 2004-833467	A 20040427
			US 2004-833484	A 20040427
			WO 2004-US14034	W 20040506

IT 75833-66-8  
 RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
 (hydrogen storage reversible hydrogenated pi-conjugated substrates)  
 RN 75833-66-8 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro-5,10,15-trimethyl- (CA INDEX NAME)



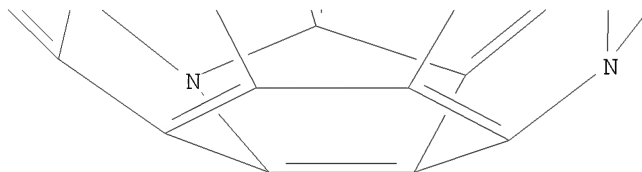
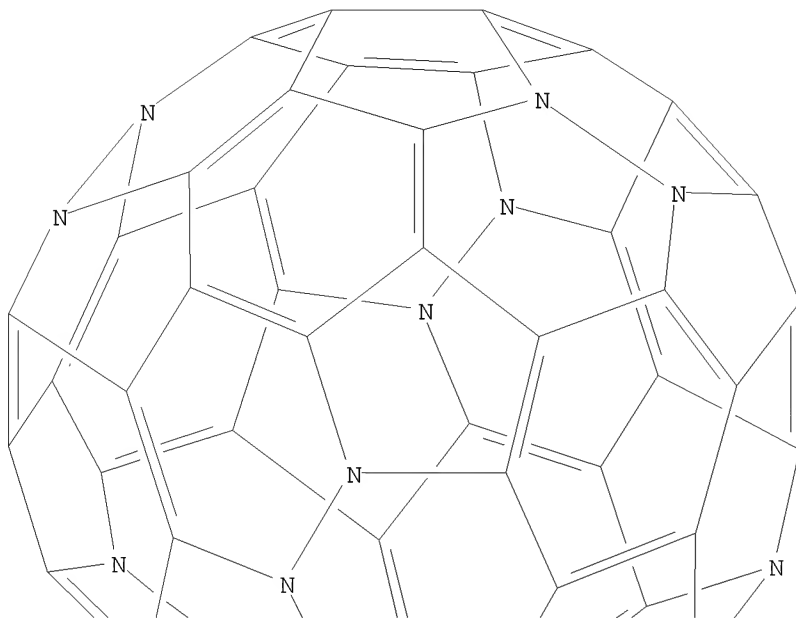
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 30 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2004:945049 CAPLUS  
 DOCUMENT NUMBER: 142:46481  
 TITLE: Electron-phonon interactions in C28-derived molecular solids  
 AUTHOR(S): Romero, Nichols A.; Kim, Jeongnim; Martin, Richard M.  
 CORPORATE SOURCE: Department of Physics, Materials Research Laboratory and Materials Computation Center, University of Illinois, Urbana, IL, 61801, USA  
 SOURCE: Physical Review B: Condensed Matter and Materials Physics (2004), 70(14), 140504/1-140504/4  
 CODEN: PRBMDO; ISSN: 1098-0121  
 PUBLISHER: American Physical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 IT 149333-56-2  
 RL: PRP (Properties)  
 (electron-phonon interactions in C28-derived mol. solids)  
 RN 149333-56-2 CAPLUS  
 CN 7,11,15,28-Tetraaza[5,6]fullerene-C28-Td (9CI) (CA INDEX NAME)



REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

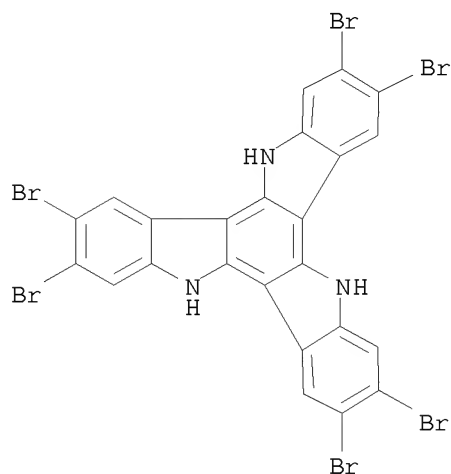
L3 ANSWER 31 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2004:781561 CAPLUS  
 DOCUMENT NUMBER: 141:403104  
 TITLE: Study on the optical and magnetic properties of C<sub>48</sub>N<sub>12</sub> azafullerene isomers  
 AUTHOR(S): Gu, Feng Long; Chen, Zhongfang; Jiao, Haijun; Tian, Wei Quan; Aoki, Yuriko; Thiel, Walter; Schleyer, Paul von Rague  
 CORPORATE SOURCE: Japan Science and Technology Corporation (JST), Kawaguchi, Saitama, 332-0012, Japan  
 SOURCE: Physical Chemistry Chemical Physics (2004), 6(19), 4566-4570  
 CODEN: PPCPFQ; ISSN: 1463-9076  
 PUBLISHER: Royal Society of Chemistry  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 IT 577977-43-6  
 RL: PRP (Properties)  
 (optical and magnetic properties of azafullerene isomers)  
 RN 577977-43-6 CAPLUS  
 CN 1,9,16,17,21,30,31,40,44,45,52,60-Dodecaaza[5,6]fullerene-C<sub>60</sub>-Ih (9CI)  
 (CA INDEX NAME)



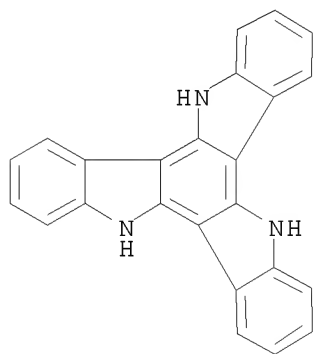
REFERENCE COUNT: 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 32 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2004:592508 CAPLUS  
 DOCUMENT NUMBER: 141:277443  
 TITLE: Synthesis of a Triaza Analogue of Crushed-Fullerene by Intramolecular Palladium-Catalyzed Arylation  
 AUTHOR(S): Gomez-Lor, Berta; Echavarren, Antonio M.  
 CORPORATE SOURCE: Instituto de Ciencia de Materiales de Madrid, CSIC, Departamento de Quimica Organica, Universidad Autonoma de Madrid (UAM), Madrid, 28049, Spain  
 SOURCE: Organic Letters (2004), 6(17), 2993-2996  
 CODEN: ORLEF7; ISSN: 1523-7060  
 PUBLISHER: American Chemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 141:277443  
 IT 307519-55-7  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (synthesis of a triaza analog of crushed-fullerene by intramol. palladium-catalyzed arylation)  
 RN 307519-55-7 CAPLUS

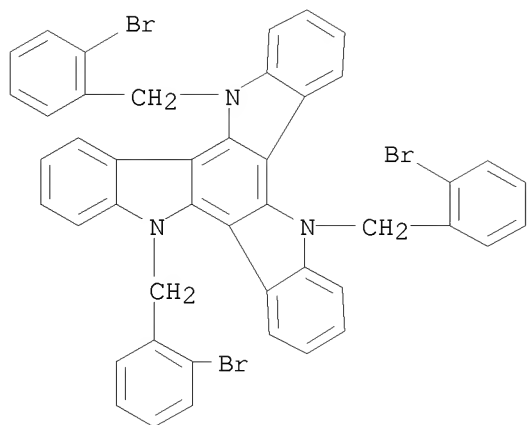
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
2,3,7,8,12,13-hexabromo-10,15-dihydro- (CA INDEX NAME)



IT 109005-10-9P 757233-23-1P 757233-25-3P  
757233-26-4P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(synthesis of a triaza analog of crushed-fullerene by intramol.  
palladium-catalyzed arylation)  
RN 109005-10-9 CAPLUS  
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro- (CA INDEX NAME)

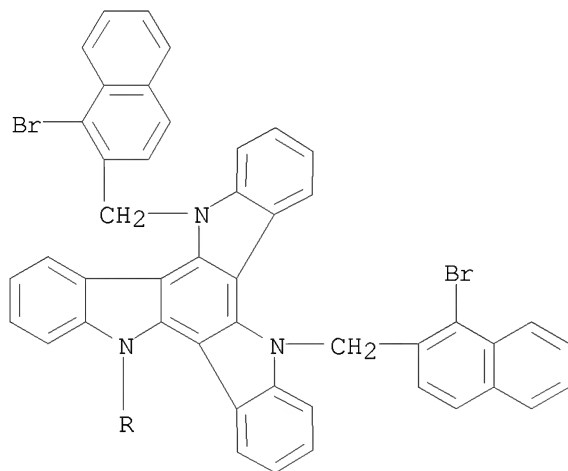


RN 757233-23-1 CAPLUS  
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
5,10,15-tris[(2-bromophenyl)methyl]-10,15-dihydro- (9CI) (CA INDEX NAME)

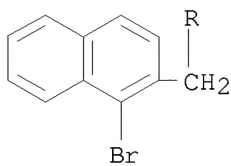


RN 757233-25-3 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 5,10,15-tris[(2-bromo-1-naphthalenyl)methyl]-10,15-dihydro- (9CI) (CA  
 INDEX NAME)

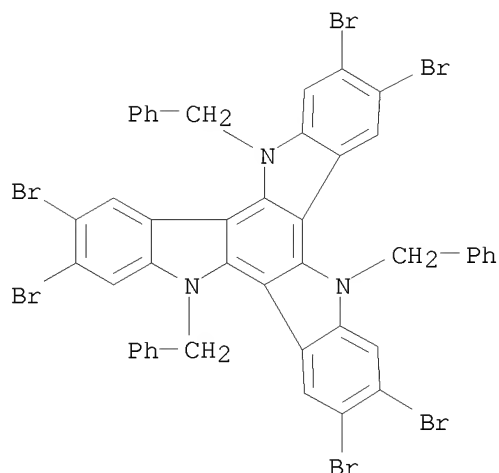
PAGE 1-A



PAGE 2-A



RN 757233-26-4 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 2,3,7,8,12,13-hexabromo-10,15-dihydro-5,10,15-tris(phenylmethyl)- (9CI)  
 (CA INDEX NAME)



IT 757233-19-5P 757233-24-2P 757233-27-5P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (synthesis of a triaza analog of crushed-fullerene by intramol.  
 palladium-catalyzed arylation)

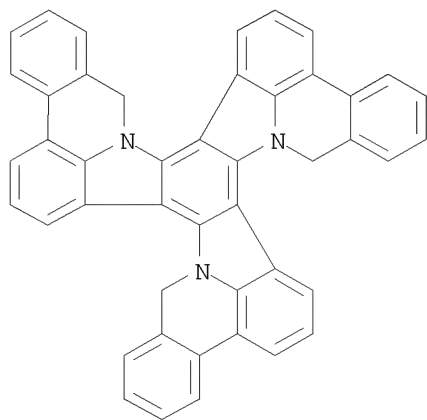
RN 757233-19-5 CAPLUS

CN 9H,20H,31H-Tribenzo[k,k',k'']benzo[1''',2''':4,5;3''',4''':4',5';  
 5''',6''':4'',5'']tripyrrolo[3,2,1-de:3',2',1'-d'e':3'',2'',1''-  
 d''e'']triphenanthridine (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

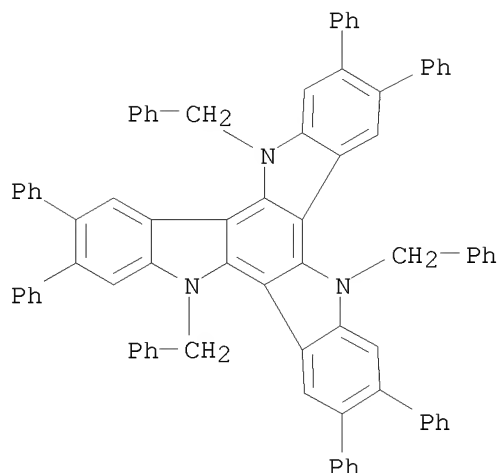
RN 757233-24-2 CAPLUS

CN 9H,18H,27H-Benzo[1''',2''':4,5;3''',4''':4',5';  
 5''',6''':4'',5'']tripyrrolo[3,2,1-de:3',2',1'-d'e':3'',2'',1''-  
 d''e'']triphenanthridine (9CI) (CA INDEX NAME)



RN 757233-27-5 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 10,15-dihydro-2,3,7,8,12,13-hexaphenyl-5,10,15-tris(phenylmethyl)- (9CI)  
 (CA INDEX NAME)



REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 33 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:503799 CAPLUS

DOCUMENT NUMBER: 141:267571

TITLE: Tuning spectral properties of fullerenes by substitutional doping

AUTHOR(S): Xie, Rui-Hua; Bryant, Garnett W.; Sun, Guangyu; Kar, Tapas; Chen, Zhongfang; Smith, Vedene H., Jr.; Araki, Yasuyuki; Tagmatarchis, Nikos; Shinohara, Hisanori; Ito, Osamu

CORPORATE SOURCE: National Institute of Standards and Technology, Gaithersburg, MD, 20899-8423, USA

SOURCE: Physical Review B: Condensed Matter and Materials Physics (2004), 69(20), 201403/1-201403/4  
CODEN: PRBMDO; ISSN: 0163-1829

PUBLISHER: American Physical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

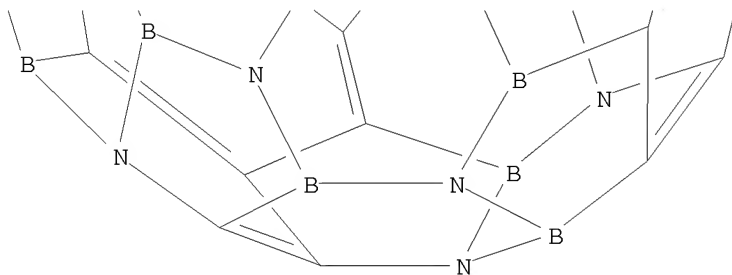
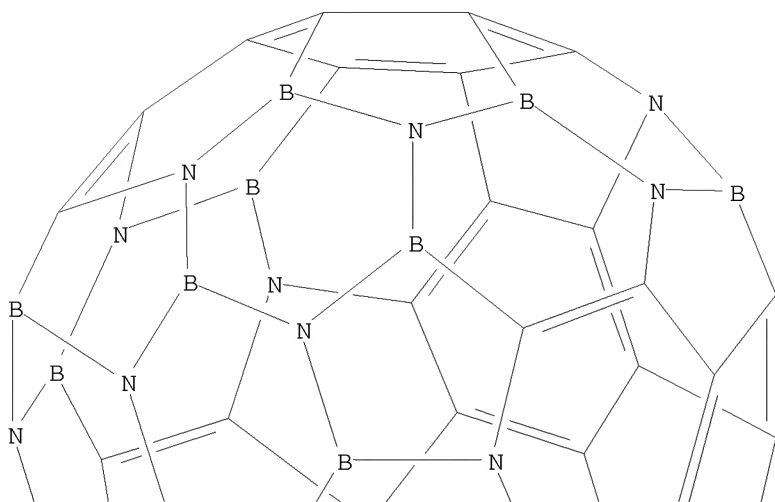
IT 425691-15-2

RL: PRP (Properties)

(tuning spectral properties of fullerenes by substitutional doping with)

RN 425691-15-2 CAPLUS

CN 2, 4, 7, 9, 11, 13, 15, 17, 23, 31, 33, 36, 47, 54, 58-Pentadecaaza-1, 3, 8, 10, 12, 14, 16, 18, 22, 30, 32, 37, 46, 48, 53-pentadecabora[5,6]fullerene-C60-Ih (9CI) (CA INDEX NAME)



REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 34 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:326427 CAPLUS

DOCUMENT NUMBER: 140:357316

TITLE: Preparation of carbazoles and their use as stabilizers for organic materials

INVENTOR(S): Ishikawa, Junichi; Kamikawa, Takashi

PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

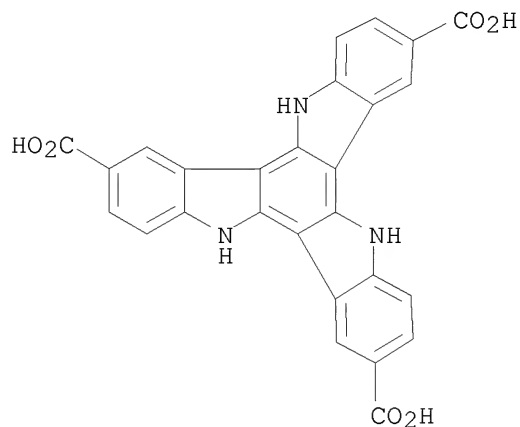
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

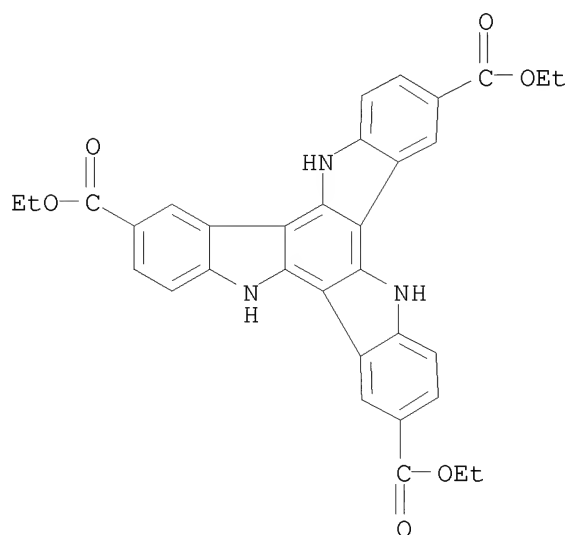
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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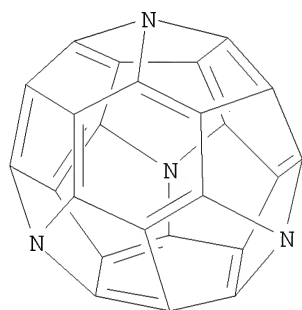
JP 2004123619 A 20040422 JP 2002-290840 20021003  
 PRIORITY APPLN. INFO.: JP 2002-290840 20021003  
 OTHER SOURCE(S): CASREACT 140:357316; MARPAT 140:357316  
 IT 681249-18-3P  
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); SPN  
 (Synthetic preparation); TEM (Technical or engineered material use); PREP  
 (Preparation); USES (Uses)  
 (preparation of carbazoles as stabilizers from phloroglucinol and anilines)  
 RN 681249-18-3 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole-3,8,13-tricarboxylic acid,  
 10,15-dihydro- (CA INDEX NAME)



IT 681249-17-2P  
 RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic  
 preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of carbazoles as stabilizers from phloroglucinol and anilines)  
 RN 681249-17-2 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole-3,8,13-tricarboxylic acid,  
 10,15-dihydro-, 3,8,13-triethyl ester (CA INDEX NAME)



ACCESSION NUMBER: 2004:188584 CAPLUS  
 DOCUMENT NUMBER: 141:148930  
 TITLE: Electron-phonon interactions in C28-derived molecular solids  
 AUTHOR(S): Romero, Nichols A.; Kim, Jeongnim; Martin, Richard M.  
 CORPORATE SOURCE: Department of Physics, Materials Research Laboratory, and Materials Computation Center, University of Illinois, Urbana, IL, 61801, USA  
 SOURCE: Los Alamos National Laboratory, Preprint Archive, Condensed Matter (2004) 1-10, arXiv:cond-mat/0403003, 27 Feb 2004  
 CODEN: LNCMFR  
 URL: <http://xxx.lanl.gov/pdf/cond-mat/0403003>  
 PUBLISHER: Los Alamos National Laboratory  
 DOCUMENT TYPE: Preprint  
 LANGUAGE: English  
 IT 149333-56-2  
 RL: PRP (Properties)  
 (electron-phonon interactions in C28-derived mol. solids)  
 RN 149333-56-2 CAPLUS  
 CN 7,11,15,28-Tetraaza[5,6]fullerene-C28-Td (9CI) (CA INDEX NAME)



REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 36 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN

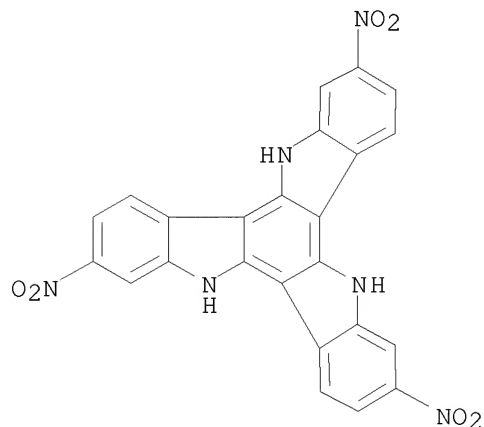
ACCESSION NUMBER: 2004:139823 CAPLUS  
 DOCUMENT NUMBER: 140:184696  
 TITLE: Indole compound based secondary battery and capacitor  
 INVENTOR(S): Kaneko, Shinako; Nishiyama, Toshihiko; Kamito, Hiroyuki; Shinoda, Tomoki; Mitani, Katsuya; Kurosaki, Masato; Nakagawa, Yuji  
 PATENT ASSIGNEE(S): NEC Tokin Corp., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004055240	A	20040219	JP 2002-208997	20020718
JP 3657245	B2	20050608		
PRIORITY APPLN. INFO.:			JP 2002-208997	20020718
OTHER SOURCE(S):	MARPAT 140:184696			
IT 583023-55-6				
RL: DEV (Device component use); USES (Uses)				

(indole derivative trimer oxide electrode active mass for secondary  
batteries and capacitors)

RN 583023-55-6 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro-2,7,12-trinitro- (9CI)  
(CA INDEX NAME)



L3 ANSWER 37 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2003:986576 CAPLUS

DOCUMENT NUMBER: 141:215074

TITLE: Photorefractive properties of conjugated carbazole  
polymers

AUTHOR(S): Aoyama, Tetsuya; Sassa, Takafumi; Mooren, Nicolai;  
Imase, Yoshihiro; Gunji, Atsushi; Sone, Takeyuki;  
Tabata, Masayoshi; Okubo, Takashi; Mitani, Tadaoki;  
Wada, Tatsuo

CORPORATE SOURCE: RIKE, The Institute of Physical and Chemical Research,  
2-1 Hirosawa, Wako, Saitama, 351-0198, Japan

SOURCE: Proceedings of SPIE-The International Society for  
Optical Engineering (2003), 5216(Organic Holographic  
Materials and Applications), 63-70  
CODEN: PSISDG; ISSN: 0277-786X

PUBLISHER: SPIE-The International Society for Optical Engineering

DOCUMENT TYPE: Journal

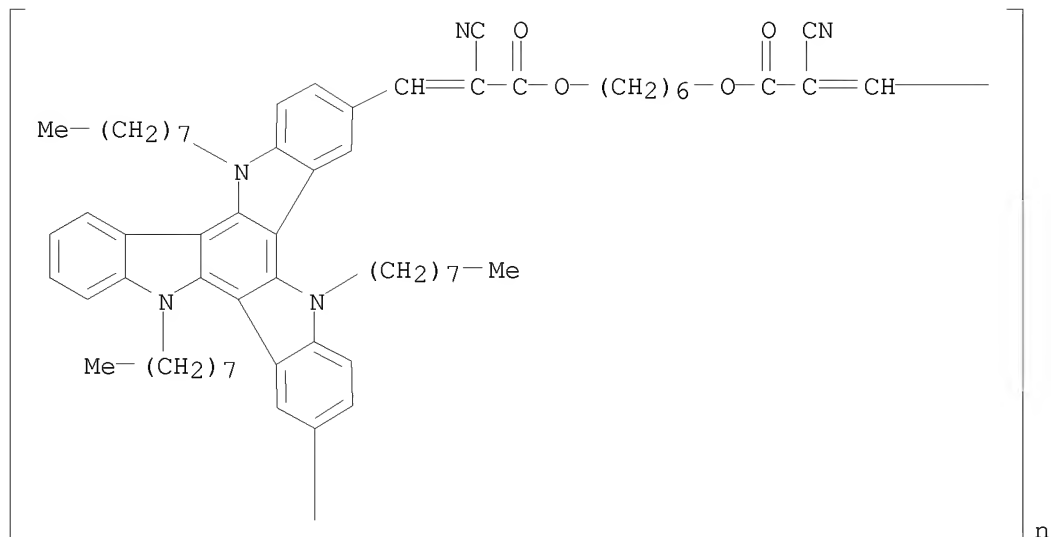
LANGUAGE: English

IT 742061-88-7

RL: DEV (Device component use); PRP (Properties); USES (Uses)  
(photorefractive properties of conjugated carbazole polymers)

RN 742061-88-7 CAPLUS

CN Poly[(10,15-dihydro-5,10,15-trioctyl-5H-diindolo[3,2-a:3',2'-c]carbazole-  
2,7-diyl)(2-cyano-3-oxo-1-propene-1,3-diyl)oxy-1,6-hexanediyl]oxy(2-cyano-1-  
oxo-2-propene-1,3-diyl)] (9CI) (CA INDEX NAME)



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 38 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2003:678085 CAPLUS

DOCUMENT NUMBER: 139:199966

TITLE: Secondary battery and capacitor utilizing indole compounds

INVENTOR(S): Kaneko, Shinako; Nishiyama, Toshihiko; Kamisuki, Hiroyuki; Mitani, Masaya; Kurosaki, Masato; Nobuta, Tomoki; Nakagawa, Yuji

PATENT ASSIGNEE(S): NEC Tokin Corp., Japan

SOURCE: Brit. UK Pat. Appl., 51 pp.

CODEN: BAXXDU

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2385706	A	20030827	GB 2003-3325	20030213
GB 2385706	B	20050615		
JP 2003249221	A	20030905	JP 2002-49706	20020226
JP 3538185	B2	20040614		
US 20030186124	A1	20031002	US 2003-365550	20030213
US 7205071	B2	20070417		
CN 1441509	A	20030910	CN 2003-106256	20030224
PRIORITY APPLN. INFO.:			JP 2002-49706	A 20020226

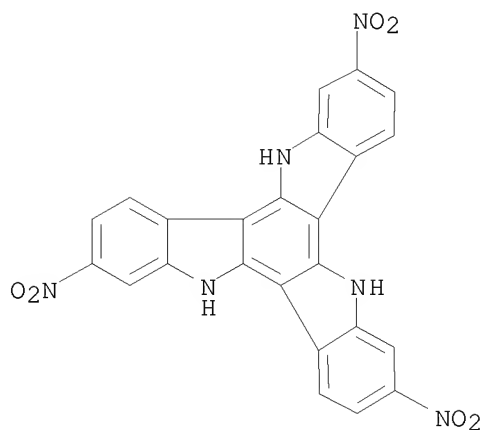
IT 583023-55-6

RL: DEV (Device component use); USES (Uses)

(secondary battery and capacitor utilizing indole compds.)

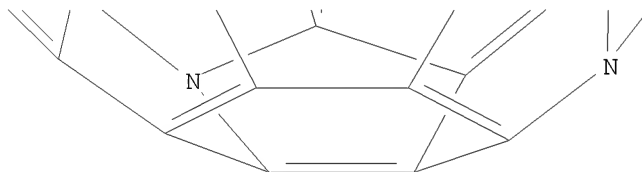
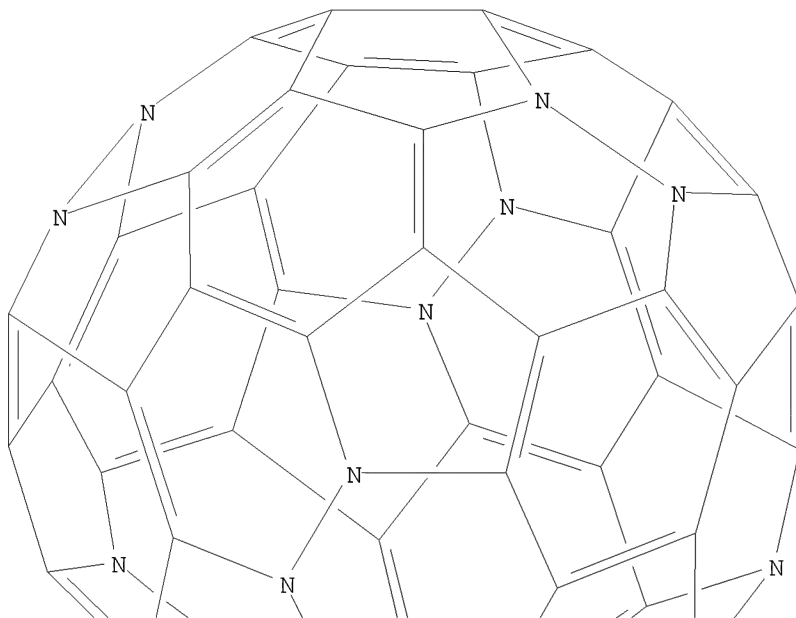
RN 583023-55-6 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro-2,7,12-trinitro- (9CI)  
(CA INDEX NAME)



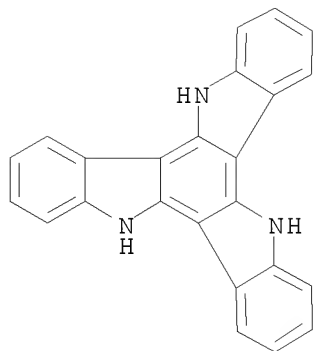
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 39 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2003:428546 CAPLUS  
 DOCUMENT NUMBER: 139:186069  
 TITLE: High-energy structures of azafullerene C48N12  
 AUTHOR(S): Riad Manaa, M.; Sprehn, David W.; Ichord, Heather A.  
 CORPORATE SOURCE: Lawrence Livermore National Laboratory, University of California, Energetic Materials Center, Livermore, CA, 94551, USA  
 SOURCE: Chemical Physics Letters (2003), 374(3,4), 405-409  
 CODEN: CHPLBC; ISSN: 0009-2614  
 PUBLISHER: Elsevier Science B.V.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 IT 577977-43-6  
 RL: PRP (Properties)  
 (high-energy structures of azafullerene C48N12)  
 RN 577977-43-6 CAPLUS  
 CN 1,9,16,17,21,30,31,40,44,45,52,60-Dodecaaza[5,6]fullerene-C60-Ih (9CI)  
 (CA INDEX NAME)



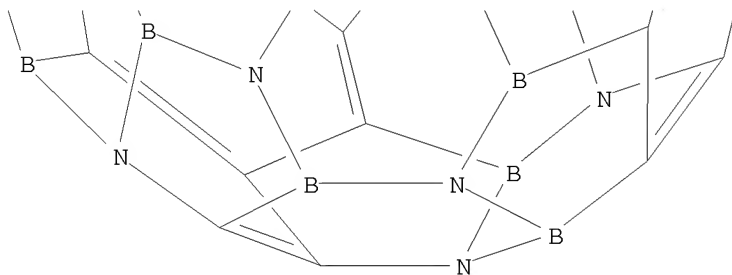
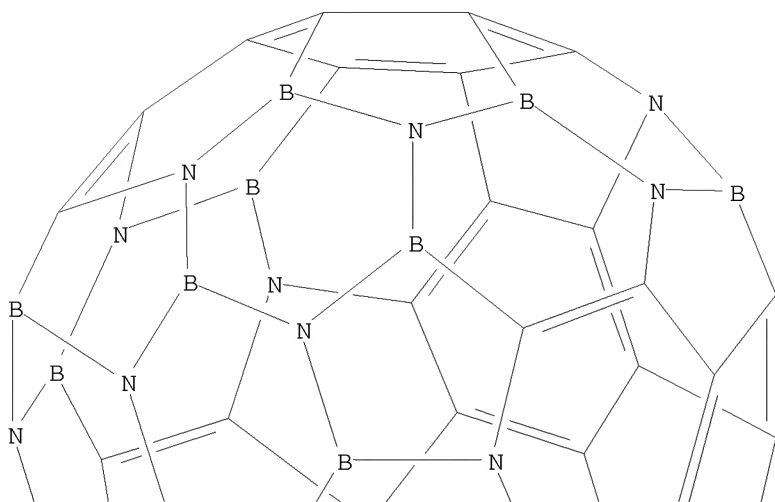
REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 40 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2002:681529 CAPLUS  
 DOCUMENT NUMBER: 138:56274  
 TITLE: A DFT study of polymerization mechanisms of indole  
 AUTHOR(S): Yurtsever, Mine; Yurtsever, Ersin  
 CORPORATE SOURCE: Department of Chemistry, Istanbul Tech. University,  
 Istanbul, 80626, Turk.  
 SOURCE: Polymer (2002), 43(22), 6019-6025  
 CODEN: POLMAG; ISSN: 0032-3861  
 PUBLISHER: Elsevier Science Ltd.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 IT 109005-10-9  
 RL: PRP (Properties)  
 (d. functional theory calcns. of polymerization mechanisms of indole and  
 relative energy of indole oligomers)  
 RN 109005-10-9 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro- (CA INDEX NAME)



REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 41 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2002:159940 CAPLUS  
 DOCUMENT NUMBER: 136:386172  
 TITLE: Boron-Nitrogen (BN) Substitution of Fullerenes: C60 to C12B24N24 CBN Ball  
 AUTHOR(S): Pattanayak, Jayasree; Kar, Tapas; Scheiner, Steve  
 CORPORATE SOURCE: Department of Chemistry and Biochemistry, Utah State University, Logan, UT, 84322-0300, USA  
 SOURCE: Journal of Physical Chemistry A (2002), 106(12), 2970-2978  
 CODEN: JPCAFH; ISSN: 1089-5639  
 PUBLISHER: American Chemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 IT 425691-15-2  
 RL: PRP (Properties)  
 (relative stability of isomers of boron-nitrogen substituted fullerenes calculated by B3LYP DFT and semiempirical MNDO methods)  
 RN 425691-15-2 CAPLUS  
 CN 2,4,7,9,11,13,15,17,23,31,33,36,47,54,58-Pentadecaaza-1,3,8,10,12,14,16,18,22,30,32,37,46,48,53-pentadecabora[5,6]fullerene-C60-Ih (9CI) (CA INDEX NAME)



REFERENCE COUNT: 63 THERE ARE 63 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 42 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2001:897102 CAPLUS  
 DOCUMENT NUMBER: 136:252748  
 TITLE: Theoretical investigation into structures and magnetic properties of smaller fullerenes and their heteroanalogues  
 AUTHOR(S): Chen, Zhongfang; Jiao, Haijun; Buhl, Michael; Hirsch, Andreas; Thiel, Walter  
 CORPORATE SOURCE: Institut für Organische Chemie, Universität Erlangen-Nürnberg, Erlangen, 91054, Germany  
 SOURCE: Theoretical Chemistry Accounts (2001), 106(5), 352-363  
 CODEN: TCACFW; ISSN: 1432-881X  
 PUBLISHER: Springer-Verlag  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 IT 149333-56-2

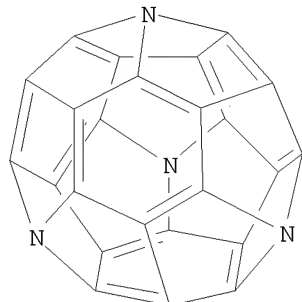


RL: PRP (Properties)

(theor. investigation into structures and magnetic properties of smaller fullerenes and heteroanalogs)

RN 149333-56-2 CAPLUS

CN 7,11,15,28-Tetraaza[5,6]fullerene-C28-Td (9CI) (CA INDEX NAME)



REFERENCE COUNT: 89 THERE ARE 89 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 43 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2001:753086 CAPLUS

DOCUMENT NUMBER: 135:310684

TITLE: Polymer made of triindole derivative and optical device

INVENTOR(S): Okubo, Takashi; Sasa, Takashi; Wada, Tatsuo

PATENT ASSIGNEE(S): Institute of Physical and Chemical Research, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2001288239	A	20011016	JP 2000-105139	20000406
PRIORITY APPLN. INFO.:			JP 2000-105139	20000406

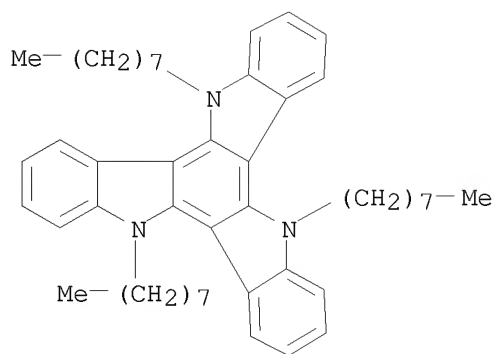
IT 361340-71-8P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

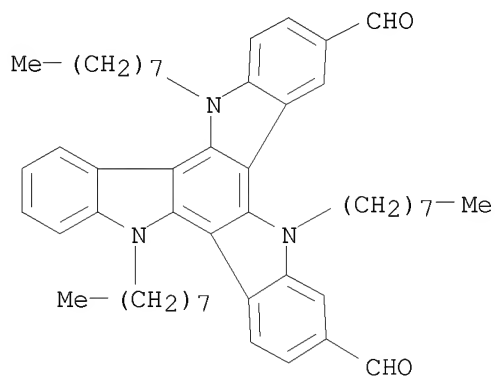
(intermediate; for preparation of triindole derivative polymer with photorefractive effect for optical device)

RN 361340-71-8 CAPLUS

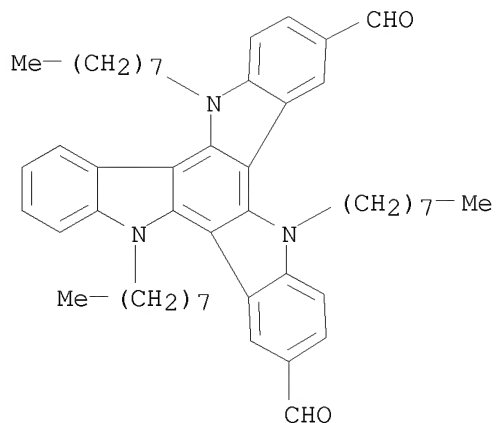
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro-5,10,15-trioctyl- (9CI) (CA INDEX NAME)



IT 361340-77-4P  
 RL: IMF (Industrial manufacture); PREP (Preparation)  
 (triindole derivative polymer with photorefractive effect for optical device)  
 RN 361340-77-4 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole-2,13-dicarboxaldehyde,  
 10,15-dihydro-5,10,15-trioctyl- (CA INDEX NAME)



IT 361340-76-3P  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (triindole derivative polymer with photorefractive effect for optical device)  
 RN 361340-76-3 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole-3,8-dicarboxaldehyde,  
 10,15-dihydro-5,10,15-trioctyl- (CA INDEX NAME)



L3 ANSWER 44 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2001:703446 CAPLUS

DOCUMENT NUMBER: 135:257226

TITLE: Preparation of triindole derivatives as electron donor materials

INVENTOR(S): Okubo, Takashi; Wada, Tatsuo

PATENT ASSIGNEE(S): Institute of Physical and Chemical Research, Japan;  
Dokutitsu Gyosei Hojin Rikagaku Kenkyusho

SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001261680	A	20010926	JP 2000-71119	20000314
JP 3536053	B2	20040607		

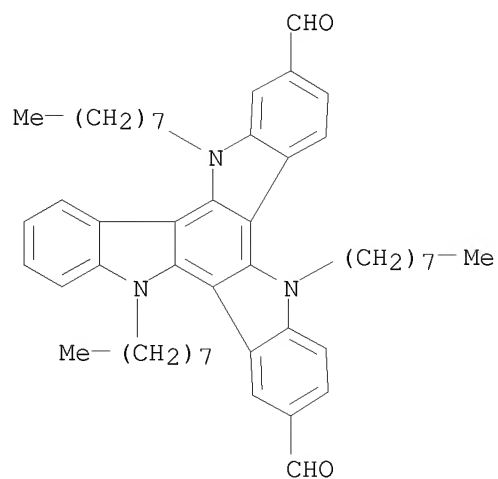
PRIORITY APPLN. INFO.: JP 2000-71119 20000314

IT 361340-73-0P 361340-75-2P 361340-76-3P  
361340-77-4P 361340-78-5P

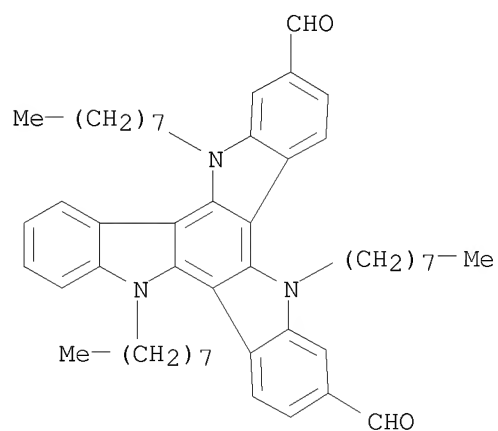
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(preparation of triindole derivs. as electron donor materials)

RN 361340-73-0 CAPLUS

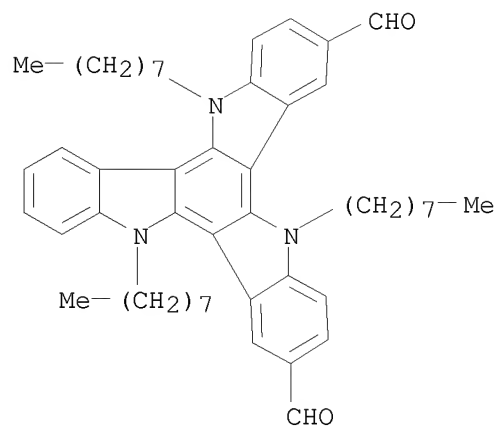
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole-2,8-dicarboxaldehyde,  
10,15-dihydro-5,10,15-trioctyl- (CA INDEX NAME)



RN 361340-75-2 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole-2,7-dicarboxaldehyde,  
 10,15-dihydro-5,10,15-trioctyl- (CA INDEX NAME)

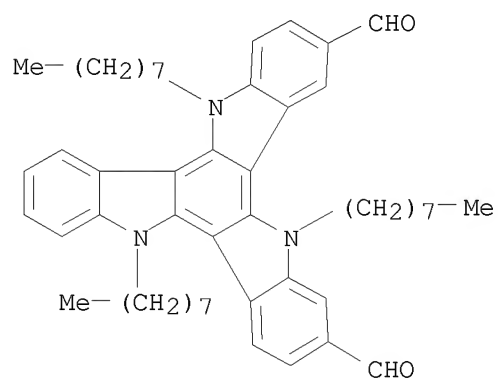


RN 361340-76-3 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole-3,8-dicarboxaldehyde,  
 10,15-dihydro-5,10,15-trioctyl- (CA INDEX NAME)



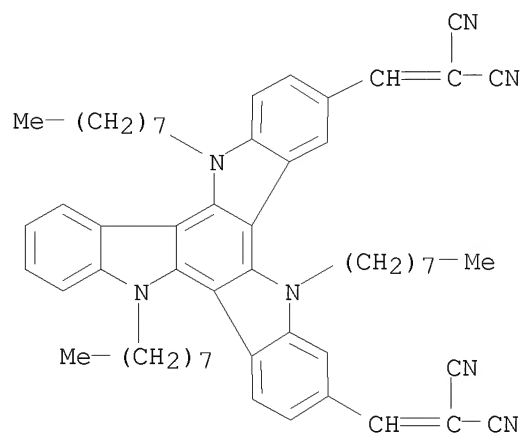
RN 361340-77-4 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole-2,13-dicarboxaldehyde,  
10,15-dihydro-5,10,15-trioctyl- (CA INDEX NAME)



RN 361340-78-5 CAPLUS

CN Propanedinitrile, 2,2'-[(10,15-dihydro-5,10,15-trioctyl-5H-diindolo[3,2-a:3',2'-c]carbazole-2,13-diyl)dimethylidene]bis- (9CI) (CA INDEX NAME)



IT 361340-71-8P

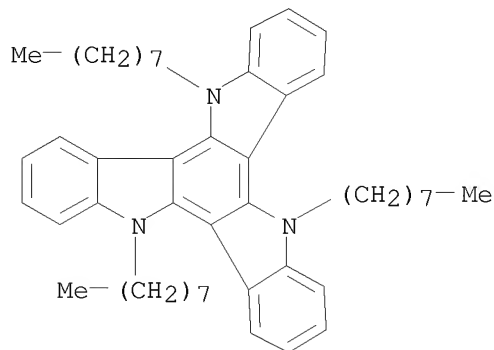
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)

(preparation of triindole derivs. as electron donor materials)

RN 361340-71-8 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro-5,10,15-trioctyl- (9CI)  
(CA INDEX NAME)



L3 ANSWER 45 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2001:518838 CAPLUS

DOCUMENT NUMBER: 135:322887

TITLE: Electronic structure and chemical stabilization of C28 fullerene

AUTHOR(S): Makurin, Y. N.; Sofronov, A. A.; Gusev, A. I.; Ivanovsky, A. L.

CORPORATE SOURCE: Ural State Technical University, Yekaterinburg, 620002, Russia

SOURCE: Chemical Physics (2001), 270(2), 293-308

CODEN: CMPHC2; ISSN: 0301-0104

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

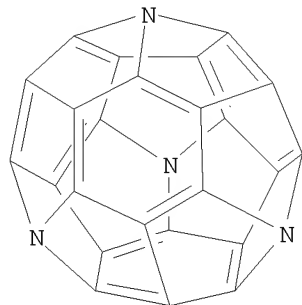
IT 149333-56-2

RL: PRP (Properties)

(electronic structure and chemical stabilization of C28, C24N4, C24B4 heterofullerenes, and exohedral and endohedral complexes of C28 with halogens, B, C, N, O, Sc, Ti, V, Cr, Fe, and Cu atoms)

RN 149333-56-2 CAPLUS

CN 7,11,15,28-Tetraaza[5,6]fullerene-C28-Td (9CI) (CA INDEX NAME)

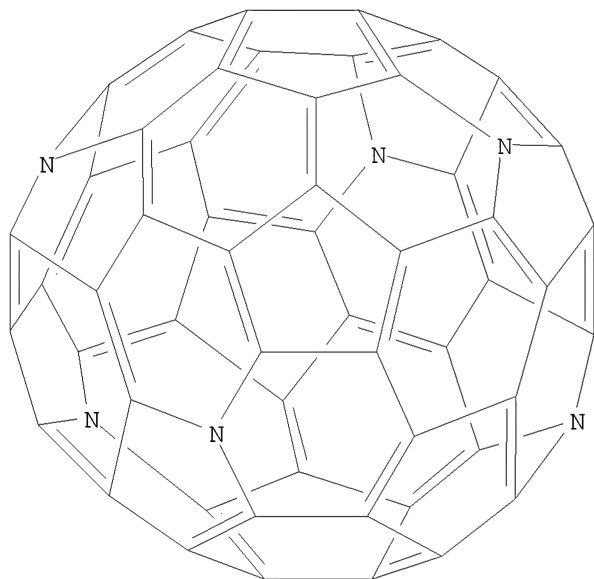


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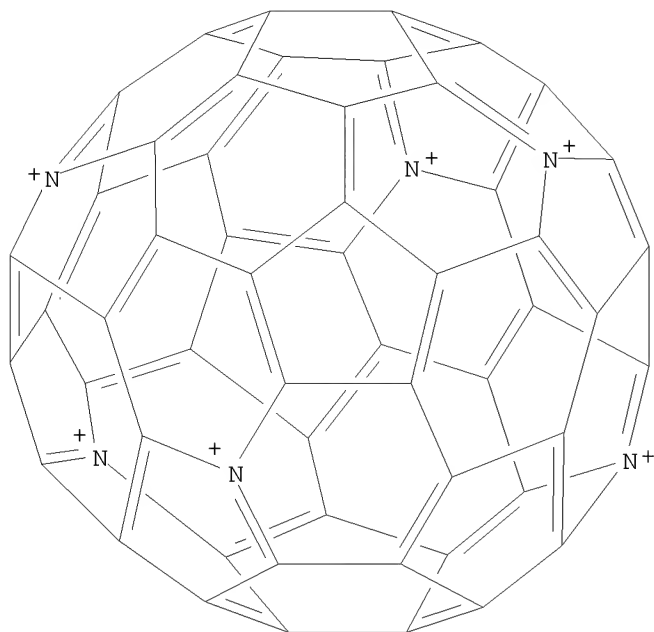
42

THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 46 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN  
ACCESSION NUMBER: 2000:833915 CAPLUS  
DOCUMENT NUMBER: 134:106125  
TITLE: Kinetic instability of azafullerenes  
AUTHOR(S): Aihara, J.  
CORPORATE SOURCE: Department of Chemistry, Faculty of Science, Shizuoka  
University, Oya Shizuoka, 422-8529, Japan  
SOURCE: THEOCHEM (2000), 532, 95-102  
CODEN: THEODJ; ISSN: 0166-1280  
PUBLISHER: Elsevier Science B.V.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
IT 320373-84-0 320376-58-7  
RL: PRP (Properties)  
(kinetic instability of azafullerenes studied theor.)  
RN 320373-84-0 CAPLUS  
CN 1,16,30,40,44,60-Hexaaza[5,6]fullerene-C60-Ih (9CI) (CA INDEX NAME)



RN 320376-58-7 CAPLUS  
CN 1,16,30,40,44,60-Hexazonia[5,6]fullerene-C60-Ih (9CI) (CA INDEX NAME)



REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 47 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2000:735048 CAPLUS

DOCUMENT NUMBER: 134:91376

TITLE: Fullerenes C<sub>36</sub>n (n=0,2+,2-) and their B- and N-doped analogues

AUTHOR(S): Chen, Z.; Jiao, H.; Hirsch, A.; Thiel, W.

CORPORATE SOURCE: Institut für Organische Chemie, Universität Erlangen-Nürnberg, Erlangen, D-91054, Germany

SOURCE: Chemical Physics Letters (2000), 329(1,2), 47-51  
CODEN: CHPLBC; ISSN: 0009-2614

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

IT 316372-66-4

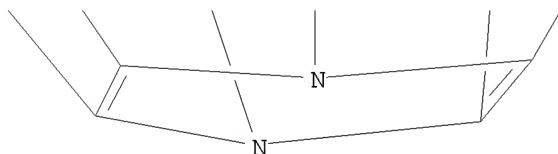
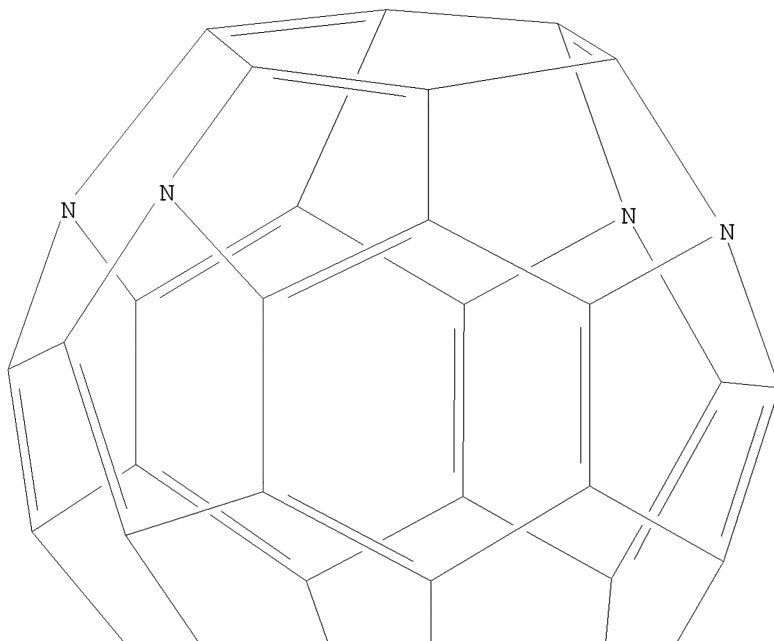
RL: PRP (Properties)

(aromaticity of C<sub>36</sub> fullerenes and their B- and N-doped analogs characterized by NICS at cage center)

RN 316372-66-4 CAPLUS

CN 7,11,15,20,24,28-Hexaaza[5,6]fullerene-C<sub>36</sub>-D<sub>6h</sub> (9CI) (CA INDEX NAME)





REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 48 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2000:596645 CAPLUS

DOCUMENT NUMBER: 133:362440

TITLE: Preparation, X-ray structure and properties of a hexabrominated, symmetric indole trimer and its TCNQ adduct: a new route to functional molecular systems  
 AUTHOR(S): Robertson, Neil; Parsons, S.; MacLean, E. J.; Coxall, R. A.; Mount, Andrew R.

CORPORATE SOURCE: Department of Chemistry, Imperial College of Science, Technology and Medicine, London, SW7 2AY, UK

SOURCE: Journal of Materials Chemistry (2000), 10(9), 2043-2047

CODEN: JMACEP; ISSN: 0959-9428

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 133:362440

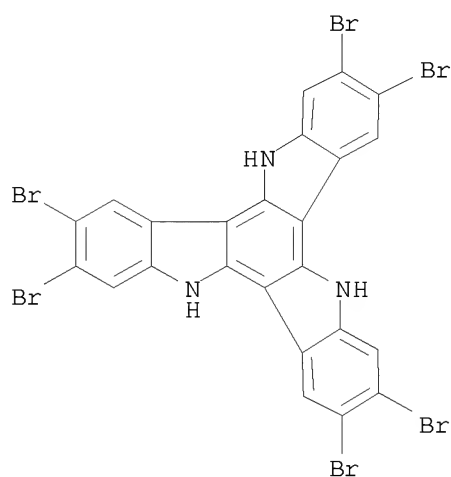
IT 307519-60-4P 307519-61-5P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
 (preparation, crystal structure and properties of hexabrominated indole trimer and its TCNQ adduct)

RN 307519-60-4 CAPLUS  
 CN Formamide, N,N-dimethyl-, compd. with  
 2,3,7,8,12,13-hexabromo-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole  
 and 2-propanone (2:1:1) (9CI) (CA INDEX NAME)

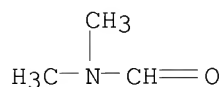
CM 1

CRN 307519-55-7  
 CMF C24 H9 Br6 N3



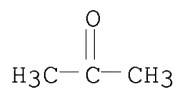
CM 2

CRN 68-12-2  
 CMF C3 H7 N O



CM 3

CRN 67-64-1  
 CMF C3 H6 O

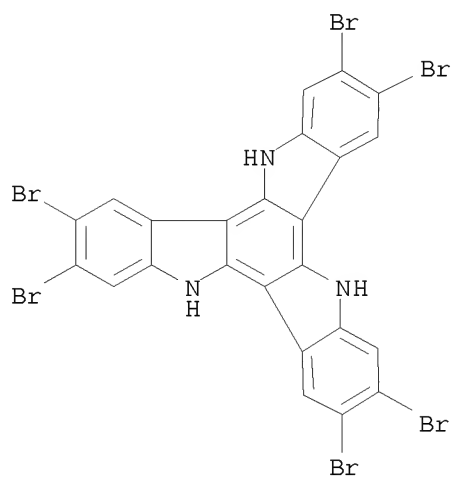


RN 307519-61-5 CAPLUS  
 CN Propanedinitrile, 2,2'-(2,5-cyclohexadiene-1,4-diylidene)bis-, compd. with  
 2,3,7,8,12,13-hexabromo-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole  
 and sulfinylbis[methane] (2:1:4) (9CI) (CA INDEX NAME)

CM 1

CRN 307519-55-7

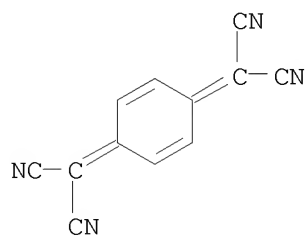
CMF C24 H9 Br6 N3



CM 2

CRN 1518-16-7

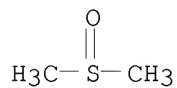
CMF C12 H4 N4



CM 3

CRN 67-68-5

CMF C2 H6 O S



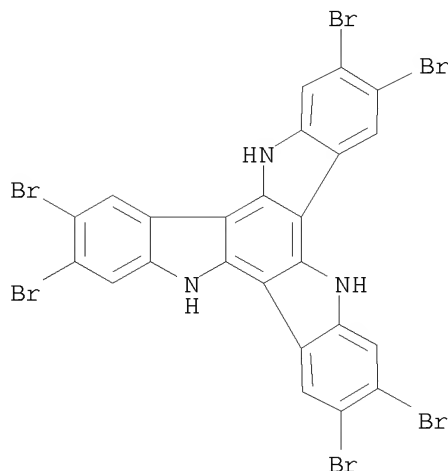
IT 307519-55-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation, crystal structure and properties of hexabrominated indole trimer and its TCNQ adduct)

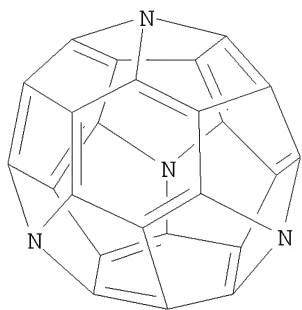
RN 307519-55-7 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
2,3,7,8,12,13-hexabromo-10,15-dihydro- (CA INDEX NAME)



REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

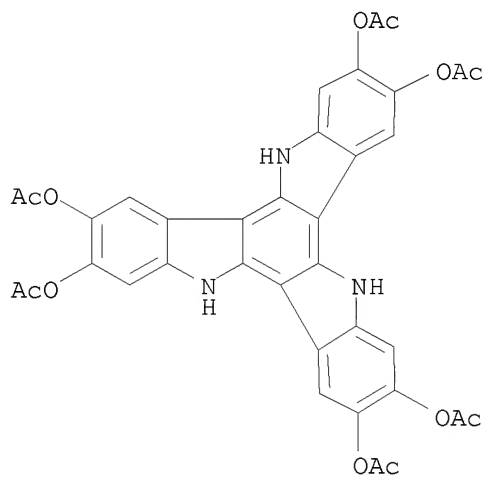
L3 ANSWER 49 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2000:438881 CAPLUS  
 DOCUMENT NUMBER: 133:155665  
 TITLE: Electronic structure and conditions for the chemical stabilization of fullerene C<sub>28</sub>. Heterofullerenes C<sub>24</sub>B<sub>4</sub> and C<sub>24</sub>N<sub>4</sub>  
 AUTHOR(S): Sofronov, A. A.; Makurin, Yu. N.; Ivanovskii, A. L.  
 CORPORATE SOURCE: Ural State Technical University, Yekaterinburg, Russia  
 SOURCE: Russian Journal of Coordination Chemistry (Translation of Koordinatsionnaya Khimiya) (2000), 26(6), 406-412  
 CODEN: RJCCEY; ISSN: 1070-3284  
 PUBLISHER: MAIK Nauka/Interperiodica Publishing  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 IT 149333-56-2, 7,11,15,28-Tetraaza[5,6]fullerene-C<sub>28</sub>-Td  
 RL: PRP (Properties)  
 (electronic structures and conditions for chemical stabilization of fullerene C<sub>28</sub>, and heterofullerenes C<sub>24</sub>B<sub>4</sub> and C<sub>24</sub>N<sub>4</sub> studied theor.)  
 RN 149333-56-2 CAPLUS  
 CN 7,11,15,28-Tetraaza[5,6]fullerene-C<sub>28</sub>-Td (9CI) (CA INDEX NAME)



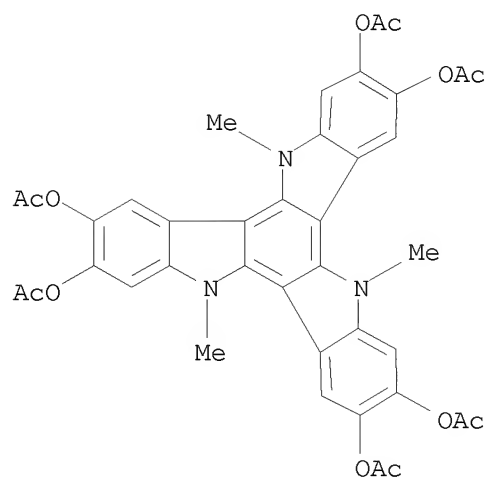
REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 50 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN

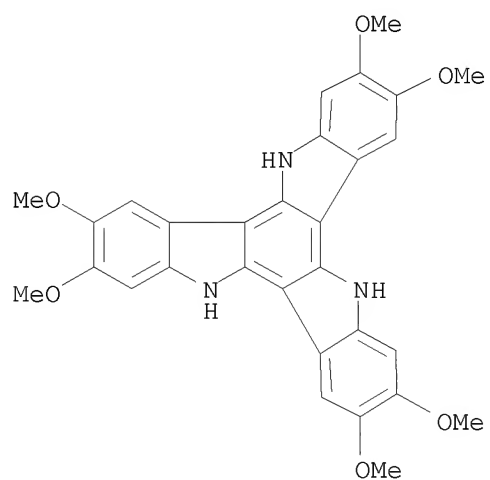
ACCESSION NUMBER: 1998:595164 CAPLUS  
 DOCUMENT NUMBER: 129:290079  
 ORIGINAL REFERENCE NO.: 129:59119a, 59122a  
 TITLE: Acid-Promoted Competing Pathways in the Oxidative Polymerization of 5,6-Dihydroxyindoles and Related Compounds: Straightforward Cyclotrimerization Routes to Diindolocarbazole Derivatives  
 AUTHOR(S): Manini, Paola; d'Ischia, Marco; Milosa, Mario; Prota, Giuseppe  
 CORPORATE SOURCE: Department of Organic and Biological Chemistry, University of Naples Federico II, Naples, I-80134, Italy  
 SOURCE: Journal of Organic Chemistry (1998), 63(20), 7002-7008  
 CODEN: JOCEAH; ISSN: 0022-3263  
 PUBLISHER: American Chemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 129:290079  
 IT 214262-46-1P 214262-47-2P 214262-48-3P 214262-56-3P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation by oxidation of 5,6-methoxyindoles and related compds.)  
 RN 214262-46-1 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole-2,3,7,8,12,13-hexol, 10,15-dihydro-, 2,3,7,8,12,13-hexaacetate (CA INDEX NAME)



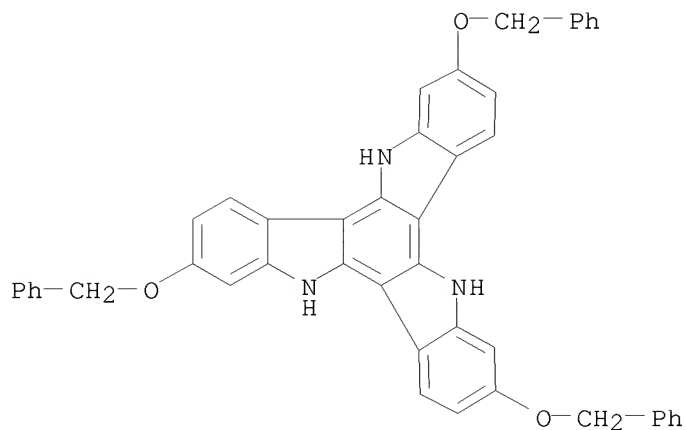
RN 214262-47-2 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole-2,3,7,8,12,13-hexol, 10,15-dihydro-5,10,15-trimethyl-, 2,3,7,8,12,13-hexaacetate (CA INDEX NAME)



RN 214262-48-3 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 10,15-dihydro-2,3,7,8,12,13-hexamethoxy- (9CI) (CA INDEX NAME)

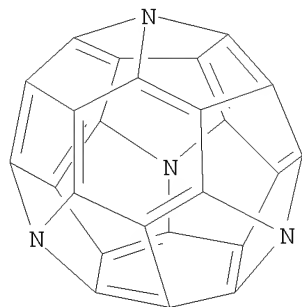


RN 214262-56-3 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
 10,15-dihydro-2,7,12-tris(phenylmethoxy)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

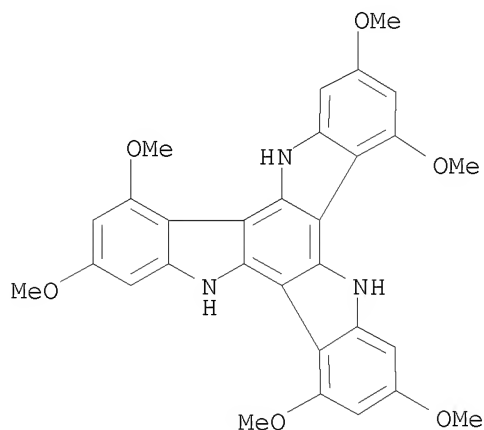
L3 ANSWER 51 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 1997:360842 CAPLUS  
 DOCUMENT NUMBER: 127:113609  
 ORIGINAL REFERENCE NO.: 127:21817a, 21820a  
 TITLE: Stability of X4Y24q (X = C, Si; Y = B, Al, C, Si, N, P; q = -4 to 4) and C28X4 (X = H, F, Cl, Br, I)  
 AUTHOR(S): Zhong, Shi-Jun; Liu, Chun-Wan  
 CORPORATE SOURCE: Center of Computer Network, Xiamen University, Xiamen, Peop. Rep. China  
 SOURCE: THEOCHEM (1997), 392, 125-136  
 CODEN: THEODJ; ISSN: 0166-1280  
 PUBLISHER: Elsevier  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 IT 149333-56-2, 7, 11, 15, 28-Tetraaza[5,6]fullerene-C28-Td  
 RL: PRP (Properties)  
 (electronic structures, energetics, and mol. structures of X4Y24q (x = C, Si; Y = B, Al, C, Si, N, P; q = -4 to 4) and C28X4 (x = H, F, Cl, Br, I) studied with MNDO calcns.)  
 RN 149333-56-2 CAPLUS  
 CN 7, 11, 15, 28-Tetraaza[5,6]fullerene-C28-Td (9CI) (CA INDEX NAME)



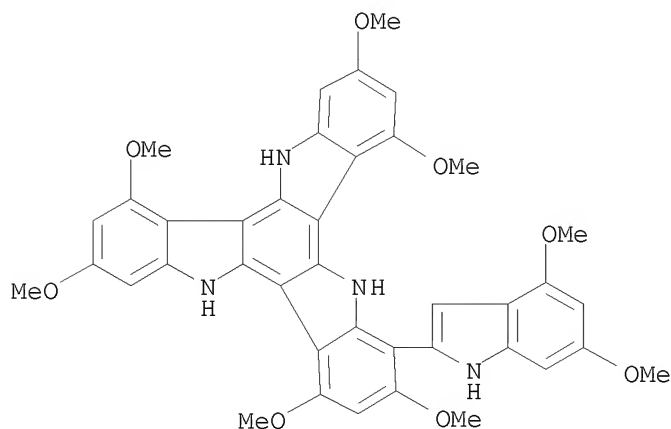
REFERENCE COUNT: 78 THERE ARE 78 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 52 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 1996:197541 CAPLUS

DOCUMENT NUMBER: 124:343046  
ORIGINAL REFERENCE NO.: 124:63711a,63714a  
TITLE: Synthesis of biindolyls by the reaction of indoles with indolin-2-ones and phosphoryl chloride or trifluoromethanesulfonic anhydride  
AUTHOR(S): Black, David StC.; Ivory, Andrew J.; Kumar, Naresh  
CORPORATE SOURCE: School Chemistry, The Univ. New South Wales, Sydney, 2052, Australia  
SOURCE: Tetrahedron (1996), 52(13), 4697-708  
CODEN: TETRAB; ISSN: 0040-4020  
PUBLISHER: Elsevier  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 124:343046  
IT 176722-81-9P 176722-82-0P  
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)  
RN 176722-81-9 CAPLUS  
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro-2,4,7,9,12,14-hexamethoxy- (9CI) (CA INDEX NAME)

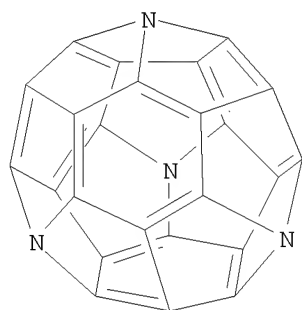


RN 176722-82-0 CAPLUS  
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 1-(4,6-dimethoxy-1H-indol-2-yl)-10,15-dihydro-2,4,7,9,12,14-hexamethoxy- (CA INDEX NAME)

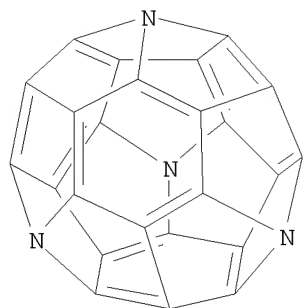




L3 ANSWER 53 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 1996:92437 CAPLUS  
 DOCUMENT NUMBER: 124:156588  
 ORIGINAL REFERENCE NO.: 124:28867a,28870a  
 TITLE: Theoretical study of C<sub>24</sub>N<sub>4</sub> molecule  
 AUTHOR(S): Sun, Kuang-Chung; Chen, Cheng  
 CORPORATE SOURCE: Taoyuan, 33509, Taiwan  
 SOURCE: THEOCHEM (1996), 360, 157-65  
 CODEN: THEODJ; ISSN: 0166-1280  
 PUBLISHER: Elsevier  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 IT 149333-56-2, 7,11,15,28-Tetraaza[5,6]fullerene-C<sub>28</sub>-Td  
 RL: PRP (Properties)  
 (ab initio, PM3 and AM1 study of tetraaza fullerene C<sub>24</sub>N<sub>4</sub>)  
 RN 149333-56-2 CAPLUS  
 CN 7,11,15,28-Tetraaza[5,6]fullerene-C<sub>28</sub>-Td (9CI) (CA INDEX NAME)



L3 ANSWER 54 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 1996:14694 CAPLUS  
 DOCUMENT NUMBER: 124:127475  
 ORIGINAL REFERENCE NO.: 124:23511a,23514a  
 TITLE: A semiempirical study of C<sub>24</sub>N<sub>4</sub> and its boron-nitrogen analogs  
 AUTHOR(S): Wang, Bo-Cheng; Yu, Liang-Jye; Wang, Wen-Jwu  
 CORPORATE SOURCE: Dep. Chem., Tamkang Univ., Tamsui, 251, Taiwan  
 SOURCE: International Journal of Quantum Chemistry (1996),  
 57(3), 465-70  
 CODEN: IJQCB2; ISSN: 0020-7608  
 PUBLISHER: Wiley  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 IT 149333-56-2, 7,11,15,28-Tetraaza[5,6]fullerene-C<sub>28</sub>-Td  
 RL: PRP (Properties)  
 (semiempirical study of C<sub>24</sub>N<sub>4</sub> and its boron-nitrogen analogs)  
 RN 149333-56-2 CAPLUS  
 CN 7,11,15,28-Tetraaza[5,6]fullerene-C<sub>28</sub>-Td (9CI) (CA INDEX NAME)



L3 ANSWER 55 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1995:791107 CAPLUS

DOCUMENT NUMBER: 123:313336

ORIGINAL REFERENCE NO.: 123:56155a,56158a

TITLE: C54N6, a potentially aromatic molecule

AUTHOR(S): Buehl, Michael

CORPORATE SOURCE: Organisch-Chemisches Institut, Universitaet Zuerich,  
Winterthurerstrasse 190, Zurich, CH-8057, Switz.

SOURCE: Chemical Physics Letters (1995), 242(6), 580-4

CODEN: CHPLBC; ISSN: 0009-2614

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

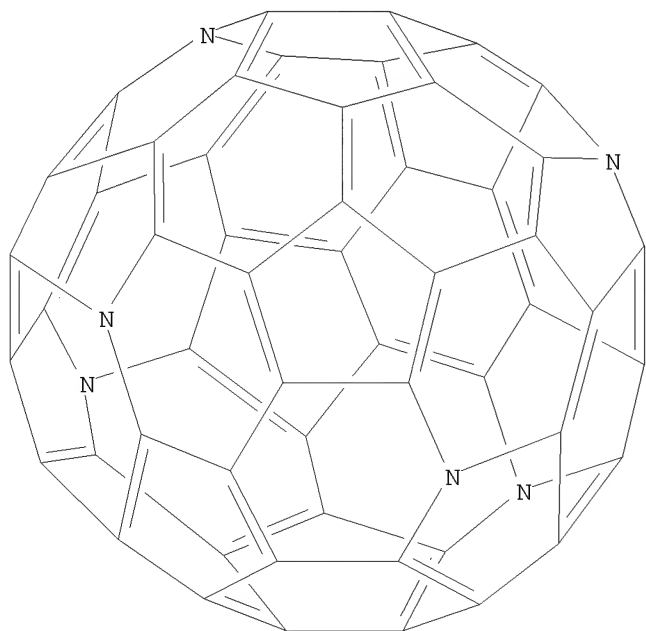
IT 170123-59-8 170123-65-6

RL: PRP (Properties)

(MO calcns. for mol. structure, total energy and NMR chemical shifts of  
hexaaza heterofullerene isomers)

RN 170123-59-8 CAPLUS

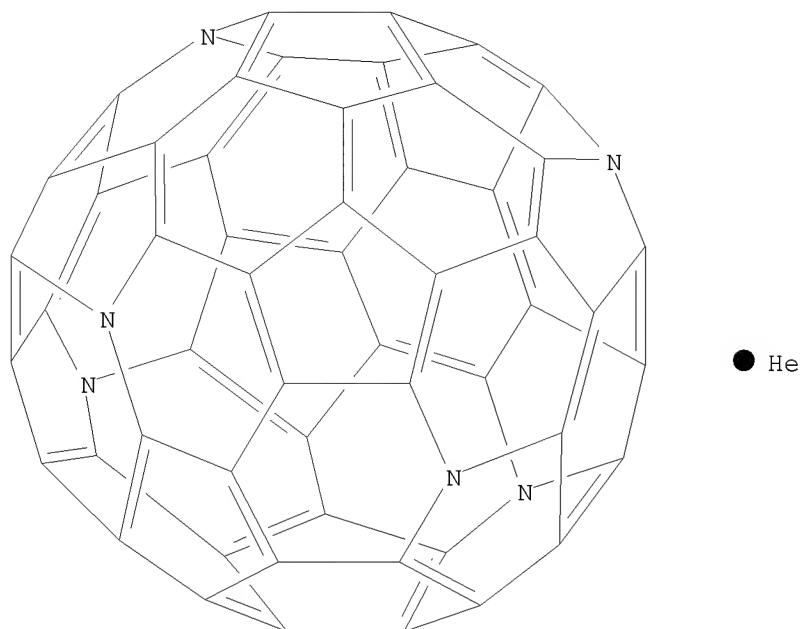
CN 1,17,21,28,50,57-Hexaaza[5,6]fullerene-C60-Ih (9CI) (CA INDEX NAME)



RN 170123-65-6 CAPLUS

CN 1,17,21,28,50,57-Hexaaza[5,6]fullerene-C60-Ih, compd. with helium (1:1)

(9CI) (CA INDEX NAME)



L3 ANSWER 56 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1995:699200 CAPLUS

DOCUMENT NUMBER: 123:131983

ORIGINAL REFERENCE NO.: 123:23133a,23136a

TITLE: Aminoalkylindoles: Structure-Activity Relationships of Novel Cannabinoid Mimetics

AUTHOR(S): Eissenstat, Michael A.; Bell, Malcolm R.; D'Ambra, Thomas E.; Alexander, E. John; Daum, Sol J.; Ackerman, James H.; Gruett, Monte D.; Kumar, Virendra; Estep, Kimberly G.; et al.

CORPORATE SOURCE: Department of Medicinal Chemistry, Sterling Winthrop Pharmaceuticals Research Division, Collegeville, PA, 19426-0900, USA

SOURCE: Journal of Medicinal Chemistry (1995), 38(16), 3094-105

CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

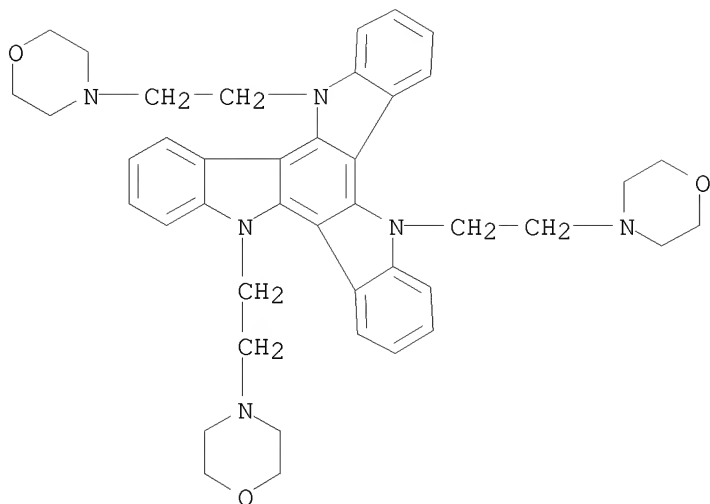
IT 166599-59-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

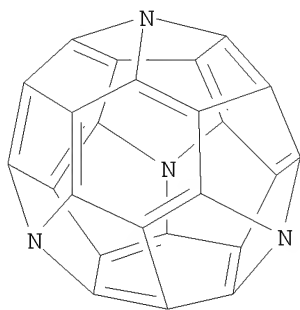
(in preparation of aminoalkylindole cannabinoid mimetics)

RN 166599-59-3 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,  
10,15-dihydro-5,10,15-tris[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)

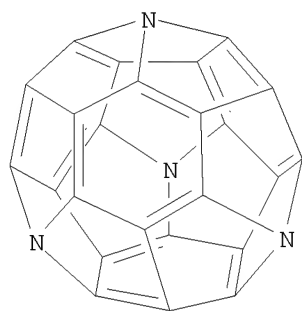


L3 ANSWER 57 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 1994:638755 CAPLUS  
 DOCUMENT NUMBER: 121:238755  
 ORIGINAL REFERENCE NO.: 121:43381a, 43384a  
 TITLE: Theoretical study of passivated small fullerenes C<sub>24</sub>X<sub>4</sub>  
 (X = N, P, As) and their isoelectronic equivalents  
 (BN)<sub>12</sub>X<sub>4</sub>  
 AUTHOR(S): Kaxiras, Efthimios; Jackson, Koblar; Pederson, Mark R.  
 CORPORATE SOURCE: Department of Physics and Division of Applied  
 Sciences, Harvard University, Cambridge, MA, 02138,  
 USA  
 SOURCE: Chemical Physics Letters (1994), 225(4-6), 448-53  
 CODEN: CHPLBC; ISSN: 0009-2614  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 IT 149333-56-2, 7,11,15,28-Tetraaza[5,6]fullerene-C<sub>28</sub>-Td  
 RL: PRP (Properties)  
 (electronic and structural properties of fullerene pnictides studied by  
 first-principles calcns.)  
 RN 149333-56-2 CAPLUS  
 CN 7,11,15,28-Tetraaza[5,6]fullerene-C<sub>28</sub>-Td (9CI) (CA INDEX NAME)

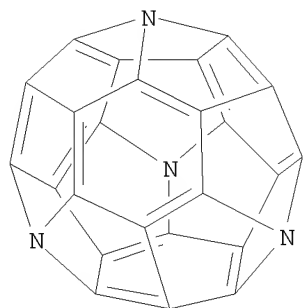


L3 ANSWER 58 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 1994:227560 CAPLUS  
 DOCUMENT NUMBER: 120:227560

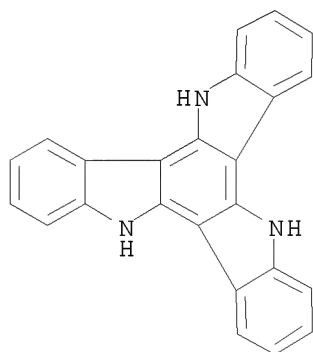
ORIGINAL REFERENCE NO.: 120:40204h,40205a  
 TITLE: Calculations on heterofullerenes: C<sub>24</sub>N<sub>4</sub>, C<sub>36</sub>N<sub>4</sub> and C<sub>52</sub>N<sub>4</sub>  
 AUTHOR(S): Wang, Bo Cheng; Yu, Liang Jye; Wang, Wen Jwu  
 CORPORATE SOURCE: Dep. Chem., Tamkang Univ., Tamsui, 25137, Taiwan  
 SOURCE: Journal of the Chinese Chemical Society (Taipei, Taiwan) (1993), 40(6), 497-502  
 CODEN: JCCTAC; ISSN: 0009-4536  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 IT 149333-56-2, 7,11,15,28-Tetraaza[5,6]fullerene-C28-Td  
 RL: PRP (Properties)  
 (energetics and geometry and electronic structure of, mol.-mechanics and HMO and MNDO calcn. of)  
 RN 149333-56-2 CAPLUS  
 CN 7,11,15,28-Tetraaza[5,6]fullerene-C28-Td (9CI) (CA INDEX NAME)



L3 ANSWER 59 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 1993:503716 CAPLUS  
 DOCUMENT NUMBER: 119:103716  
 ORIGINAL REFERENCE NO.: 119:18499a,18502a  
 TITLE: The tetravalence of fullerene C<sub>28</sub>.  
 AUTHOR(S): Fowler, Patrick W.; Austin, Sarah J.; Sandall, John P. B.  
 CORPORATE SOURCE: Dep. Chem., Univ. Exeter, Exeter, EX4 4QD, UK  
 SOURCE: Journal of the Chemical Society, Perkin Transactions 2: Physical Organic Chemistry (1972-1999) (1993), (5), 795-7  
 CODEN: JCPKBH; ISSN: 0300-9580  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 IT 149333-56-2, 1,14,18,22-Tetraaza[5,6]Fullerene-C28-Td  
 RL: PRP (Properties)  
 (tetravalence of carbon and)  
 RN 149333-56-2 CAPLUS  
 CN 7,11,15,28-Tetraaza[5,6]fullerene-C28-Td (9CI) (CA INDEX NAME)

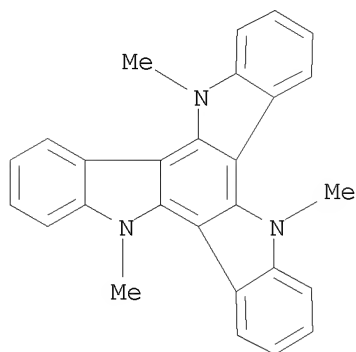


L3 ANSWER 60 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 1987:439553 CAPLUS  
 DOCUMENT NUMBER: 107:39553  
 ORIGINAL REFERENCE NO.: 107:6607a,6610a  
 TITLE: Synthesis and characterization of new indole trimers and tetramers  
 AUTHOR(S): Bocchi, Vittorio; Palla, Gerardo  
 CORPORATE SOURCE: Ist. Chim. Org., Univ. Parma, Parma, I-43100, Italy  
 SOURCE: Tetrahedron (1986), 42(18), 5019-24  
 CODEN: TETRAB; ISSN: 0040-4020  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 107:39553  
 IT 109005-10-9P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 109005-10-9 CAPLUS  
 CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro- (CA INDEX NAME)

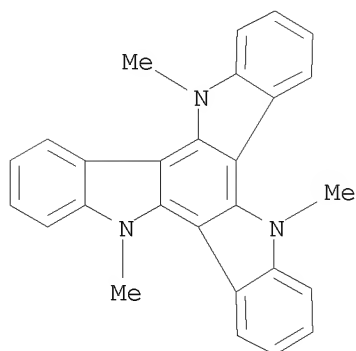


L3 ANSWER 61 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 1981:121220 CAPLUS  
 DOCUMENT NUMBER: 94:121220  
 ORIGINAL REFERENCE NO.: 94:19811a,19814a  
 TITLE: Synthesis of 2,2'-biindolyls by coupling reactions  
 AUTHOR(S): Bergman, Jan; Eklund, Nils  
 CORPORATE SOURCE: Dep. Org. Chem., R. Inst. Technol., Stockholm, S-100 44, Swed.  
 SOURCE: Tetrahedron (1980), 36(10), 1439-43  
 CODEN: TETRAB; ISSN: 0040-4020  
 DOCUMENT TYPE: Journal

LANGUAGE: English  
OTHER SOURCE(S): CASREACT 94:121220  
IT 75833-66-8P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of, from iodomethylindole)  
RN 75833-66-8 CAPLUS  
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro-5,10,15-trimethyl- (CA  
INDEX NAME)



L3 ANSWER 62 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN  
ACCESSION NUMBER: 1981:3948 CAPLUS  
DOCUMENT NUMBER: 94:3948  
ORIGINAL REFERENCE NO.: 94:735a,738a  
TITLE: Synthesis and studies of tris-indolobenzenes and  
related compounds  
AUTHOR(S): Bergman, Jan; Eklund, Nils  
CORPORATE SOURCE: Dep. Org. Chem., R. Inst. Technol., Stockholm, S-100  
44, Swed.  
SOURCE: Tetrahedron (1980), 36(10), 1445-50  
CODEN: TETRAB; ISSN: 0040-4020  
DOCUMENT TYPE: Journal  
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IT 75833-66-8P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of, by Vilsmeier reaction of methyloxindole with methylindole)  
RN 75833-66-8 CAPLUS  
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro-5,10,15-trimethyl- (CA  
INDEX NAME)



=> FIL STNGUIDE  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
244.68	430.78

FULL ESTIMATED COST

FILE 'STNGUIDE' ENTERED AT 14:13:08 ON 06 JAN 2009  
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT  
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FILE CONTAINS CURRENT INFORMATION.  
LAST RELOADED: Dec 19, 2008 (20081219/UP).

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